

FIG.1

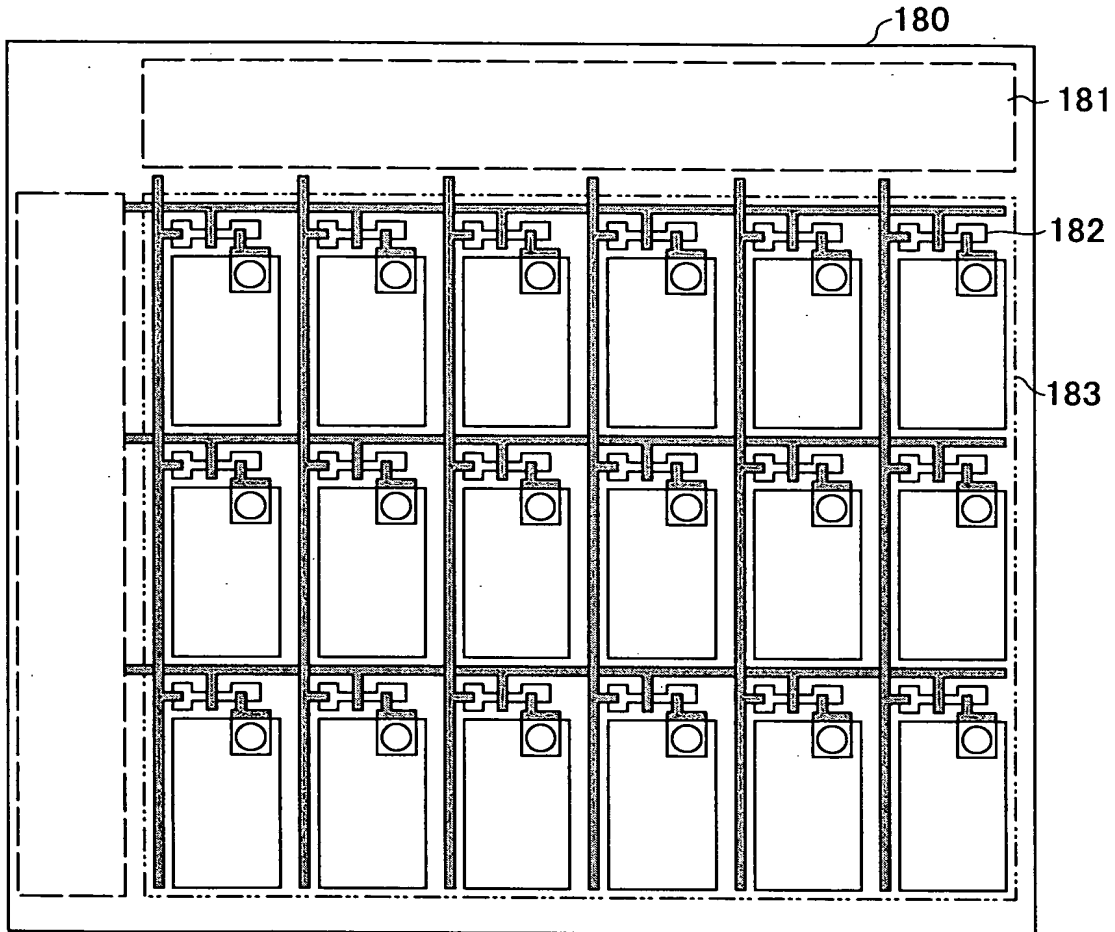


FIG.2

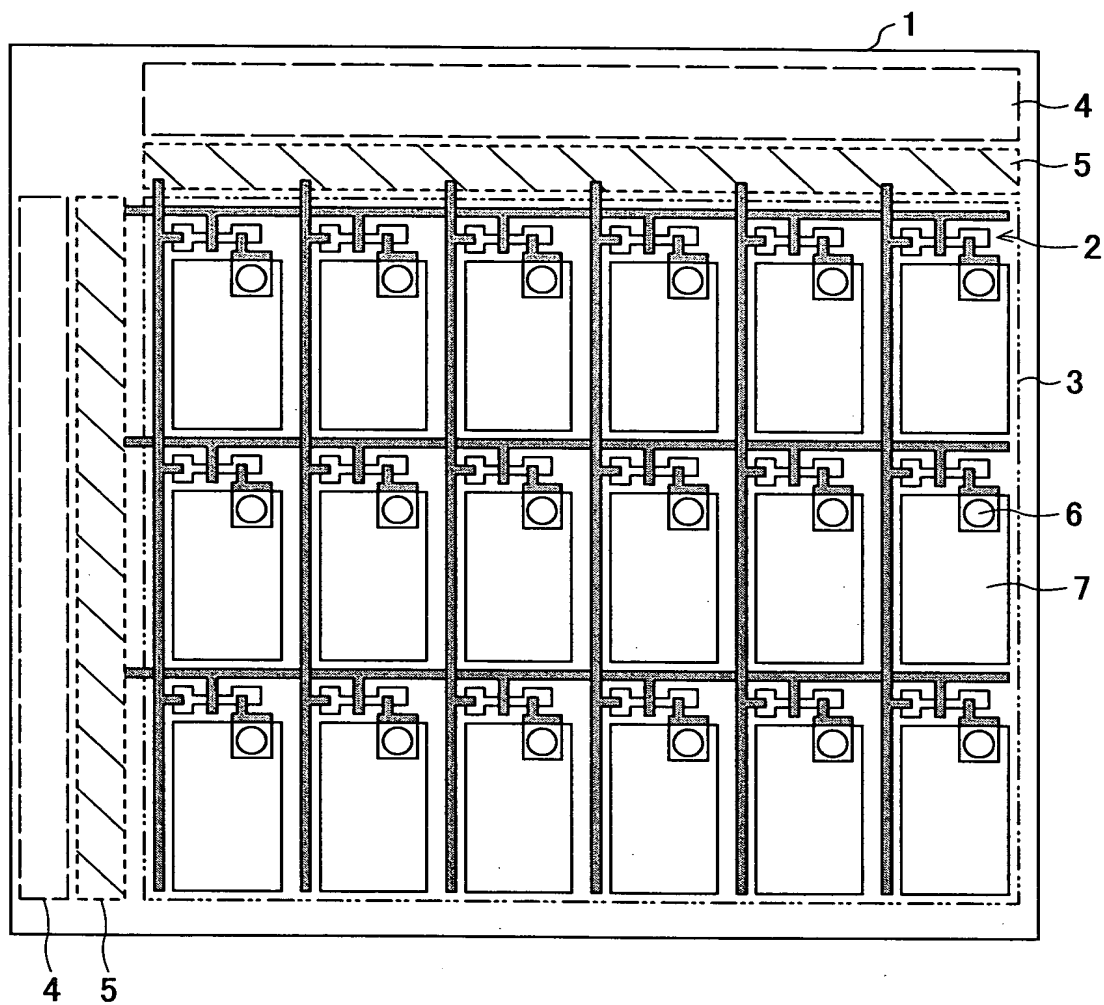
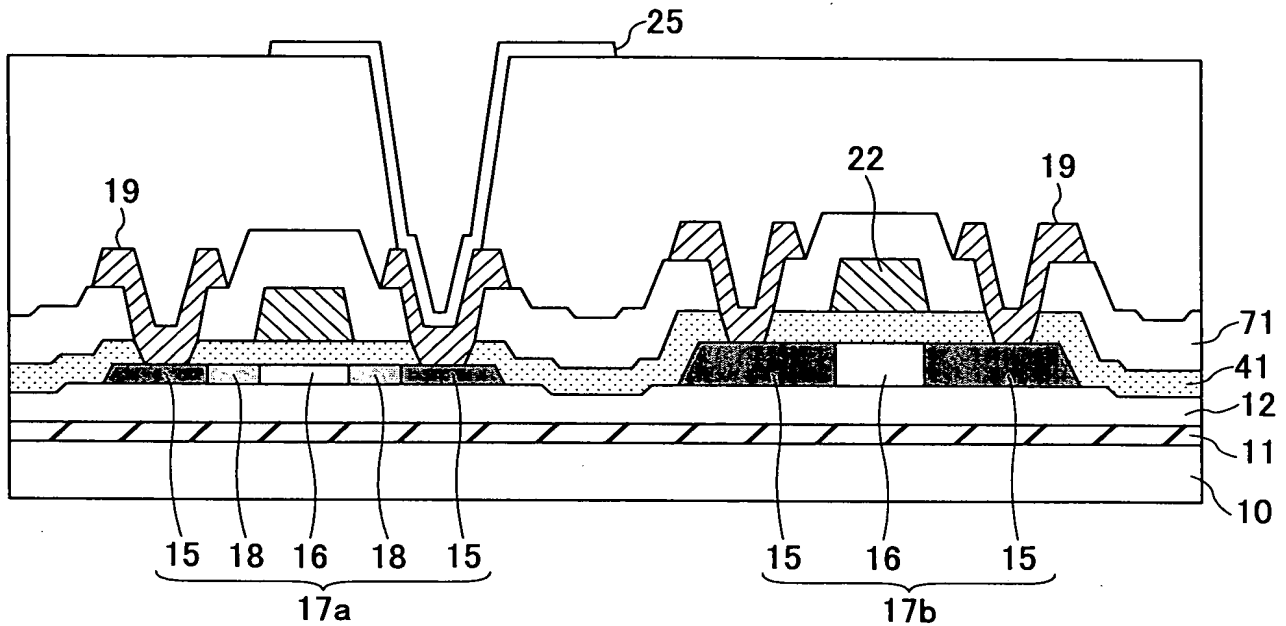


FIG.3



- 10 TRANSPARENT INSULATING SUBSTRATE
- 11 BASE SiN FILM
- 12 BASE SiO₂ FILM
- 15 SOURCE / DRAIN
- 16 CHANNEL REGION
- 17a,17b ACTIVE LAYER (SEMICONDUCTOR FILM)
- 18 LDD
- 19 SOURCE/DRAIN ELECTRODE
- 22 GATE ELECTRODE
- 25 PIXEL ELECTRODE
- 41 GATE INSULATING FILM
- 71 INTERLAYER INSULATING FILM

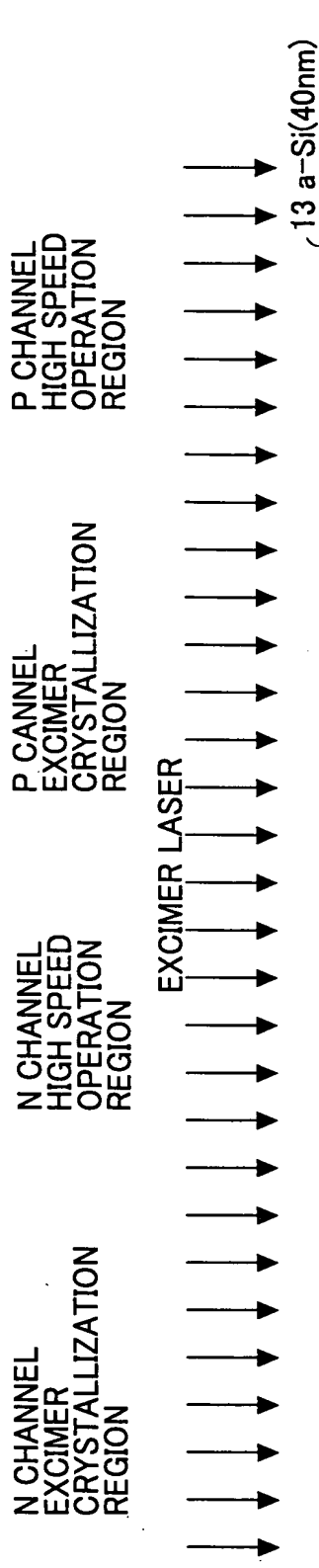


FIG. 4A

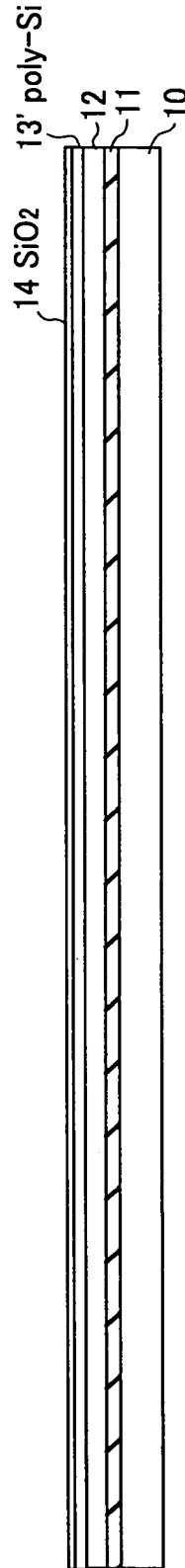


FIG. 4B

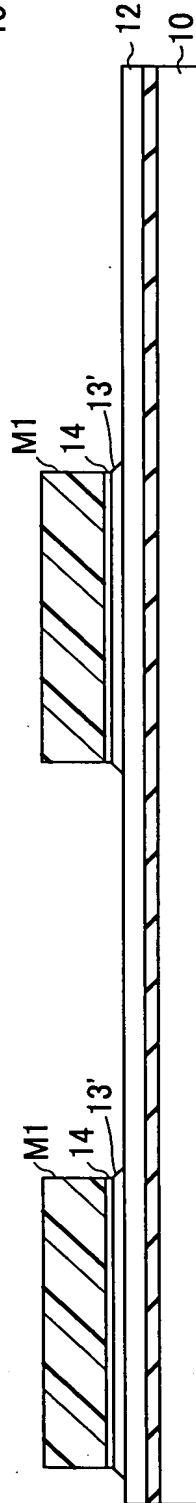


FIG. 4C

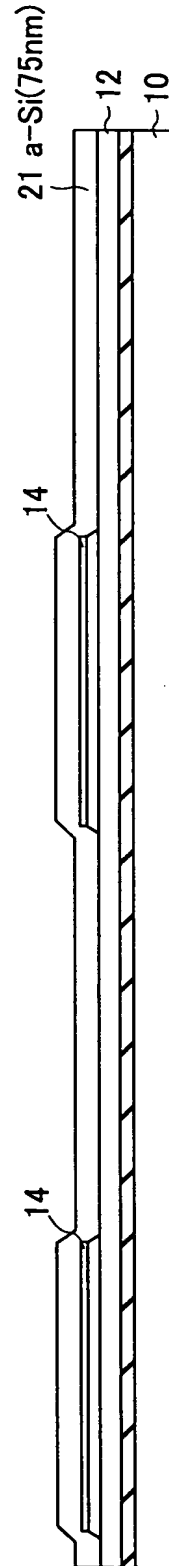


FIG. 4D

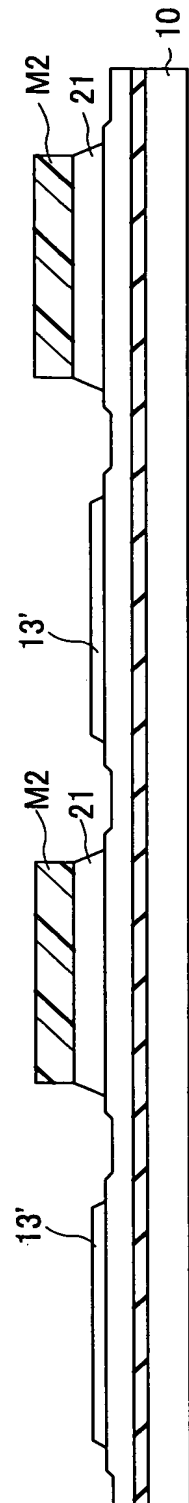


FIG. 4E

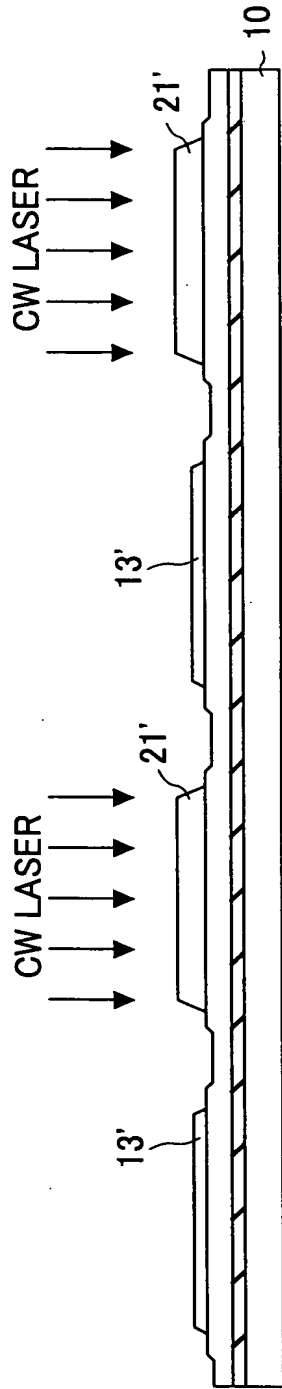


FIG. 4F

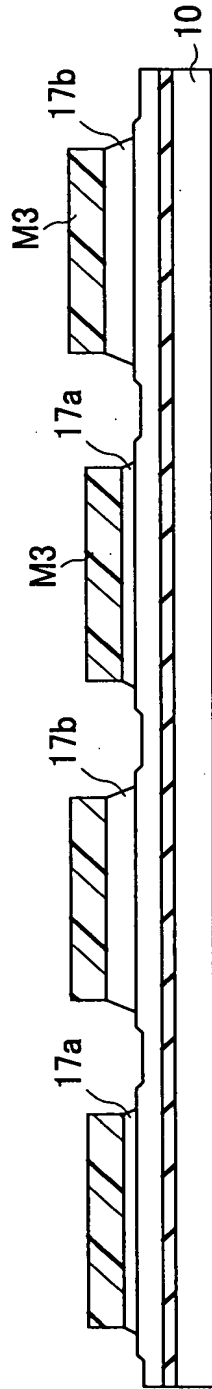


FIG. 4G

ISOLATION

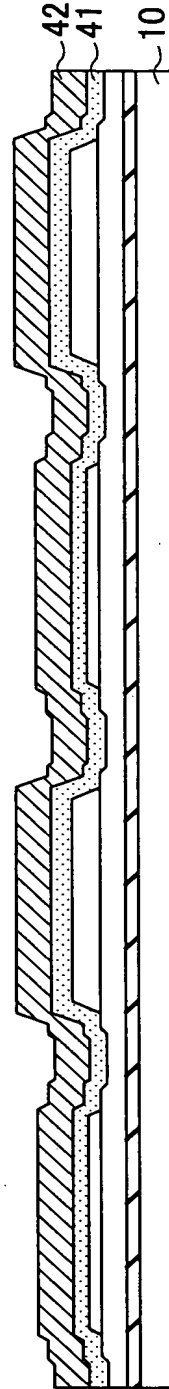


FIG. 4H

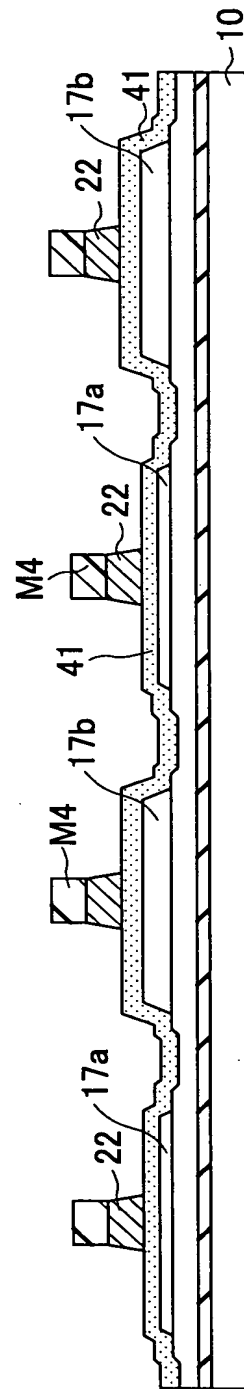


FIG. 4I

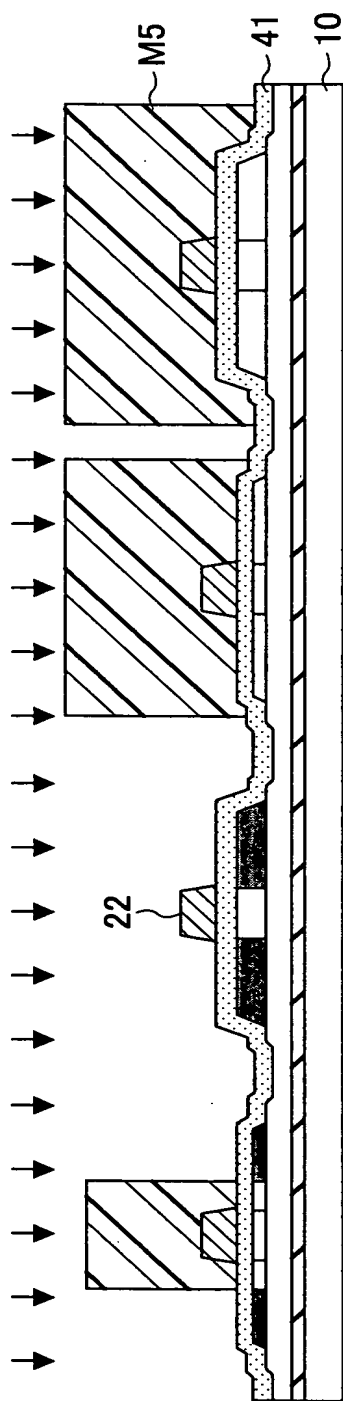


FIG. 4J

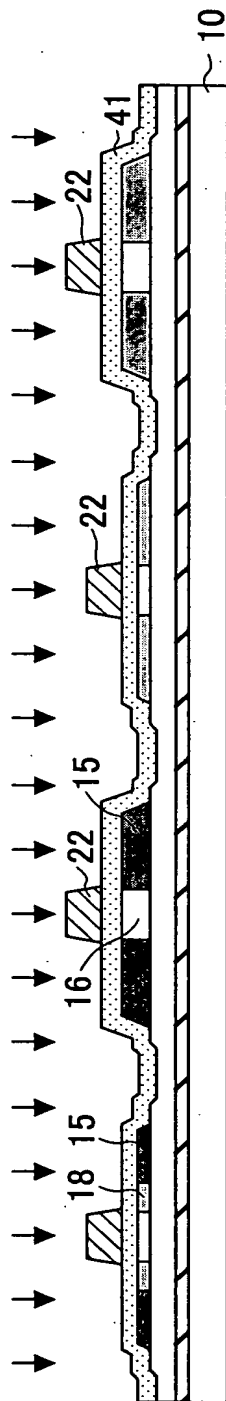


FIG. 4K

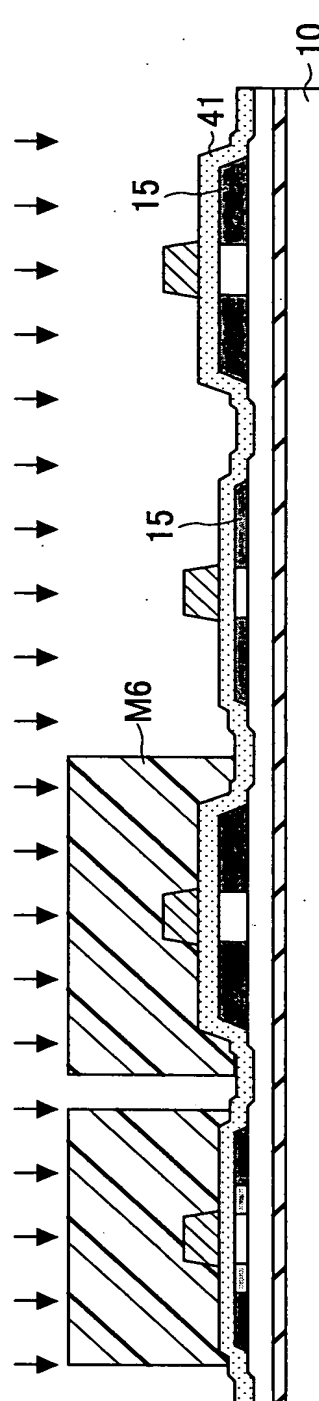


FIG. 4L

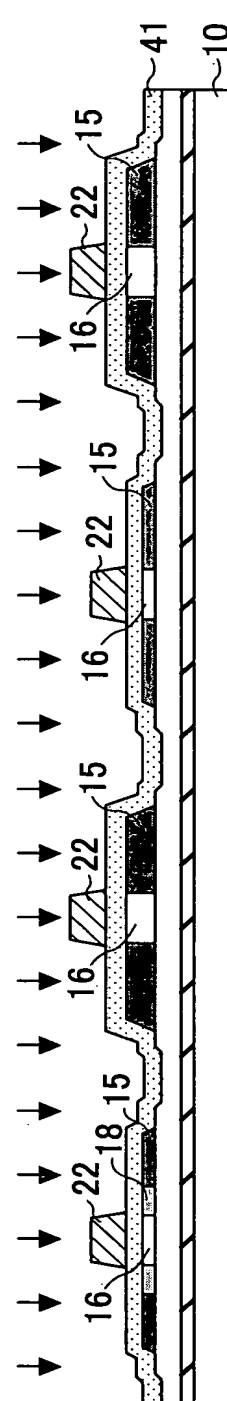


FIG. 4M

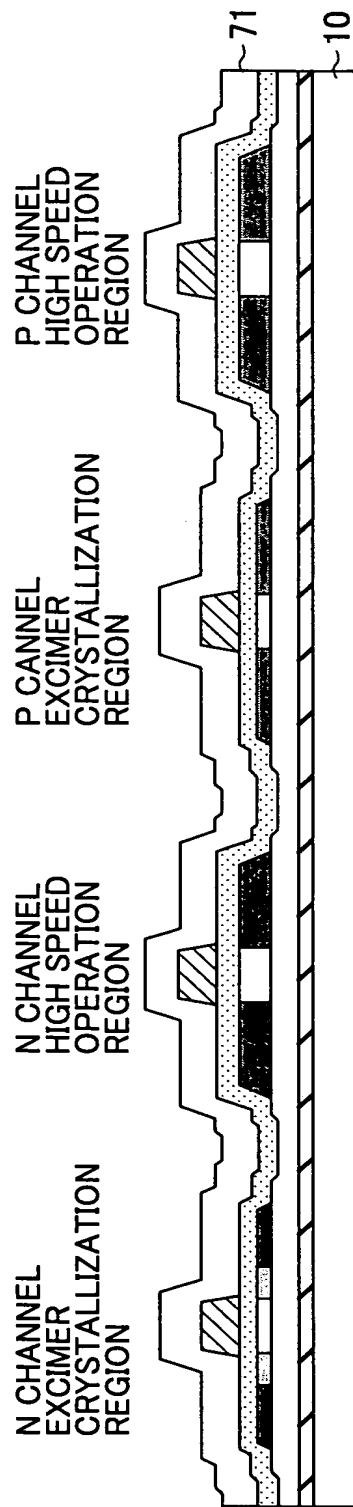


FIG. 4N

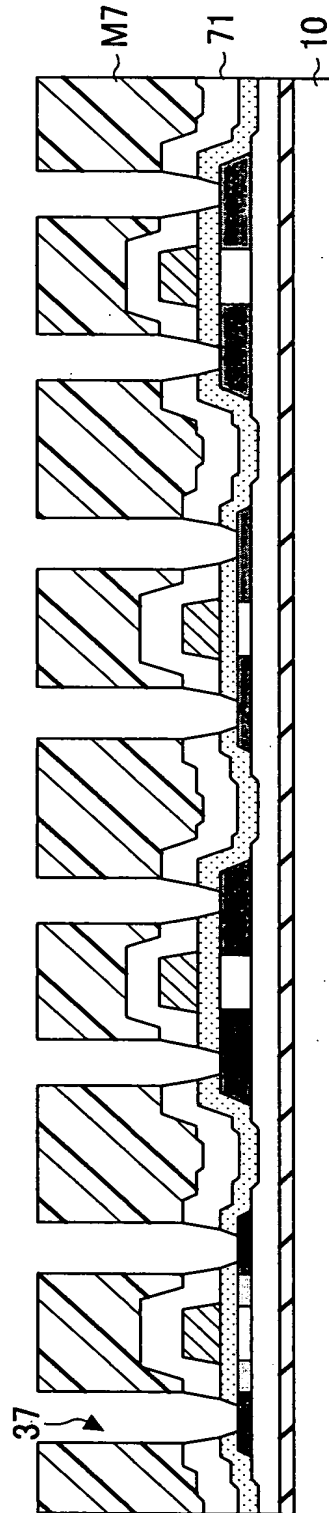


FIG. 4O

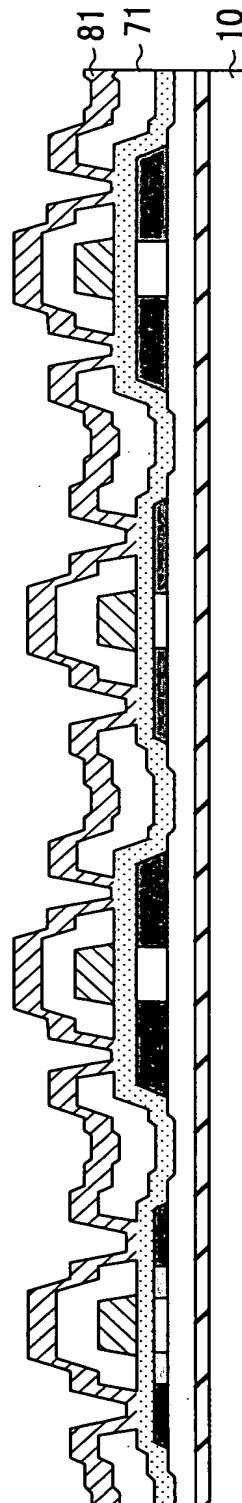


FIG. 4P

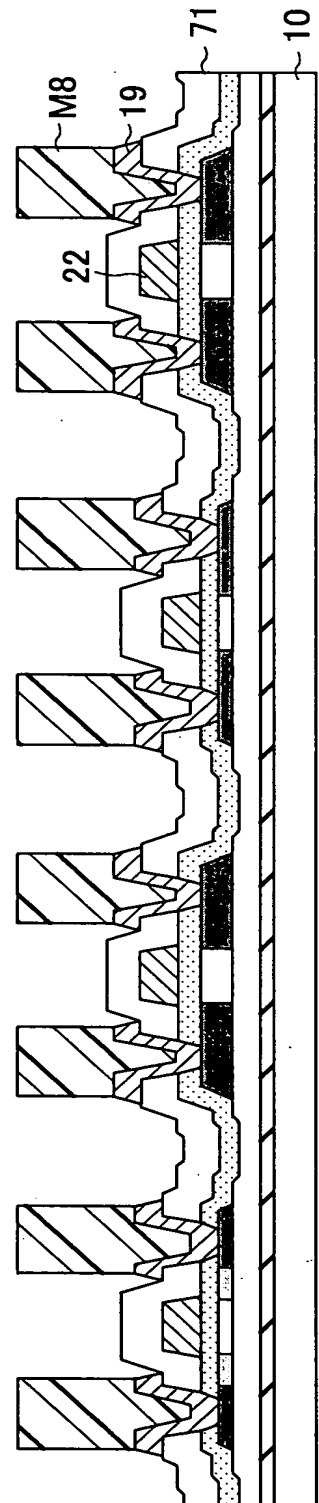


FIG. 4Q

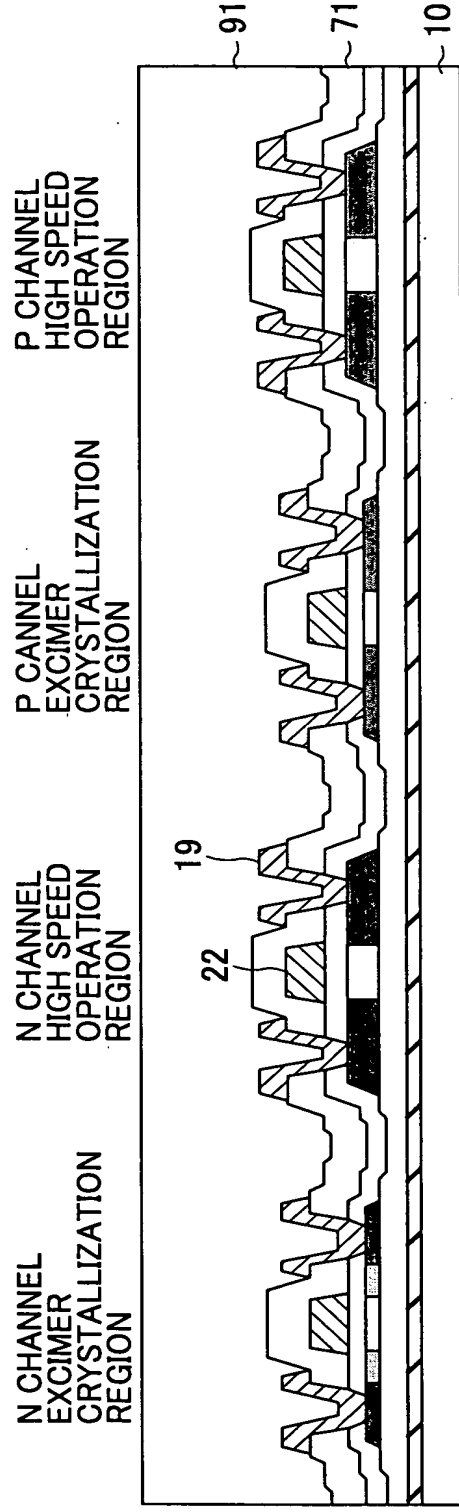


FIG. 4R

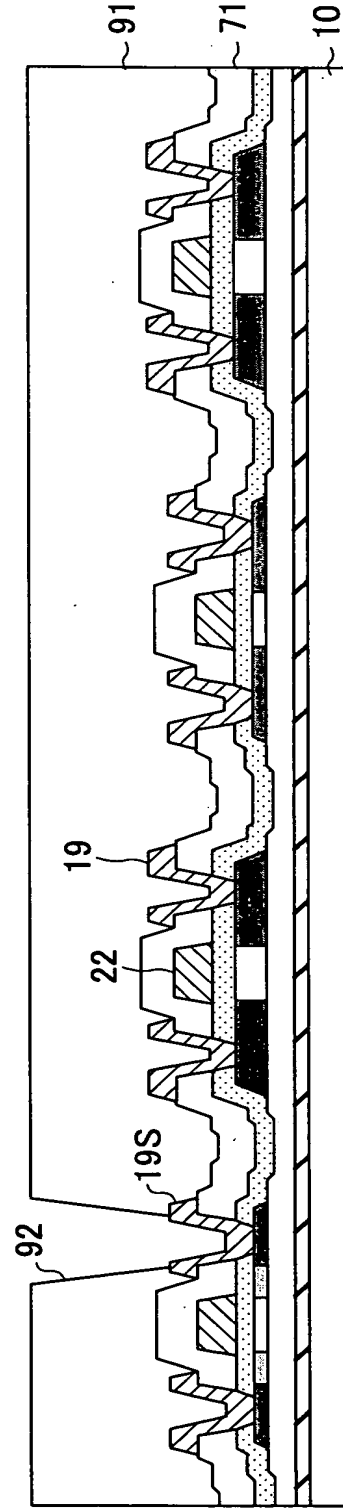


FIG. 4S

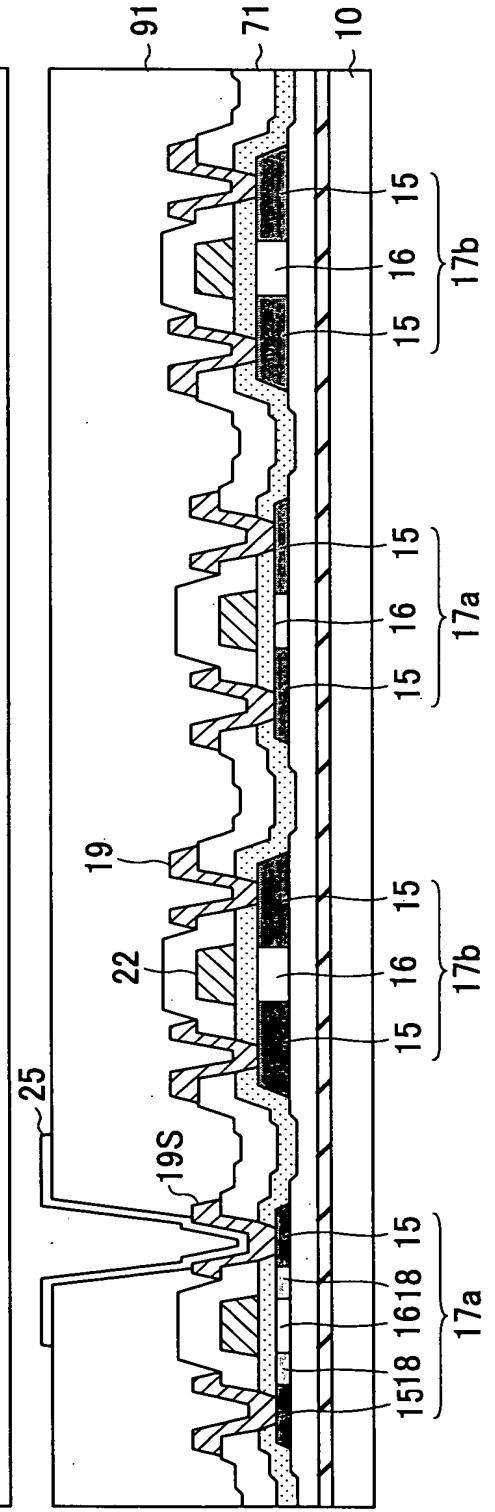


FIG. 4T

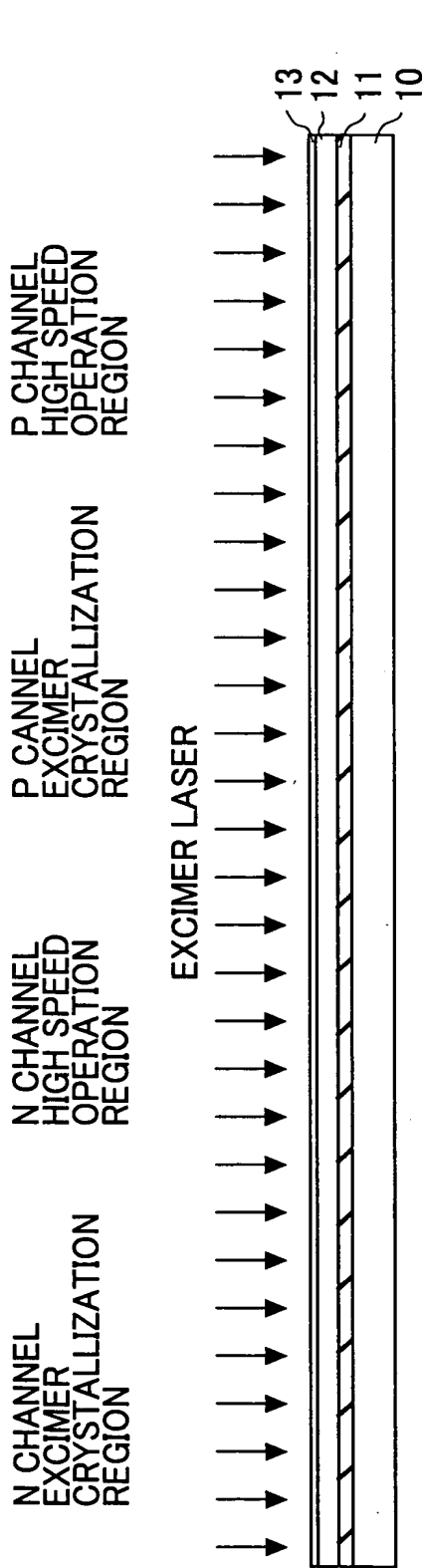


FIG. 5A

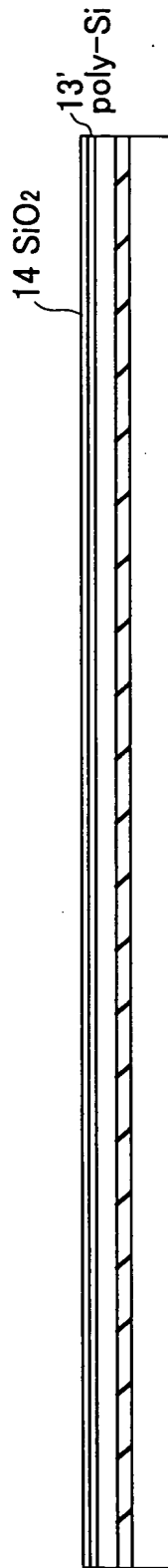


FIG. 5B

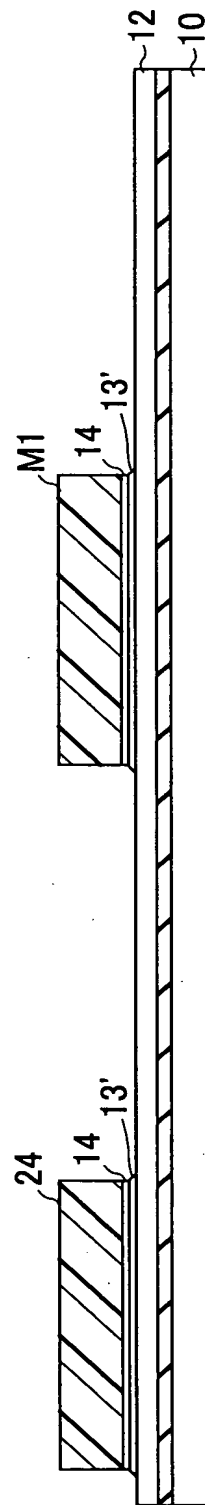


FIG. 5C

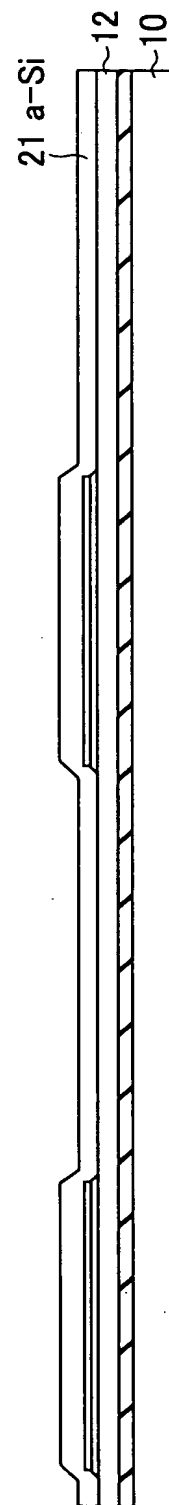


FIG. 5D

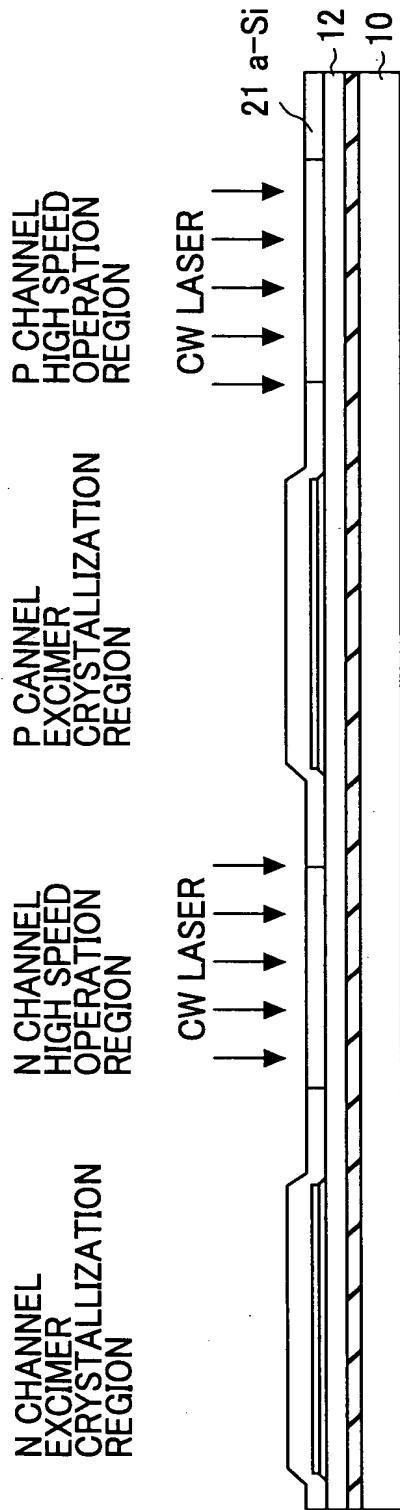


FIG. 5E

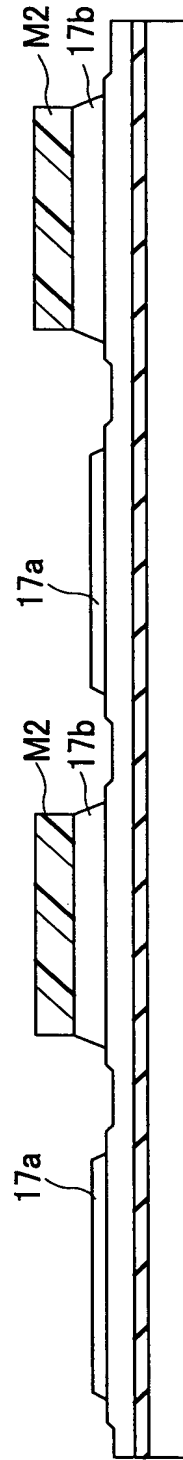


FIG. 5F

N CHANNEL
EXCIMER
CRYSTALLIZATION
REGION

N CHANNEL
HIGH SPEED
OPERATION
REGION

P CANNEL
EXCIMER
CRYSTALLIZATION
REGION

P CHANNEL
HIGH SPEED
OPERATION
REGION

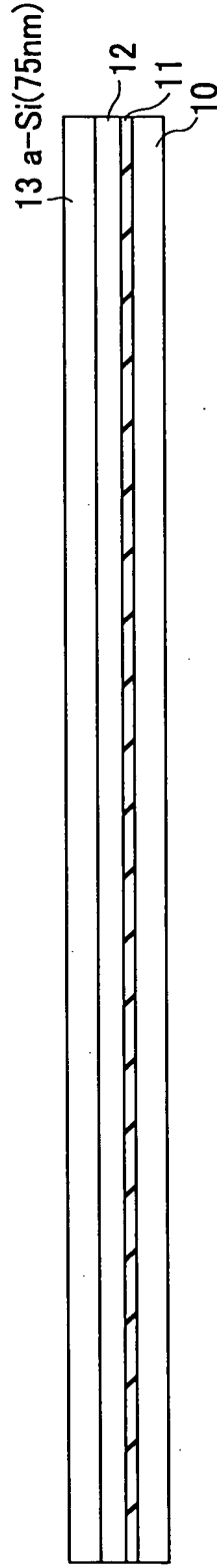


FIG. 6A

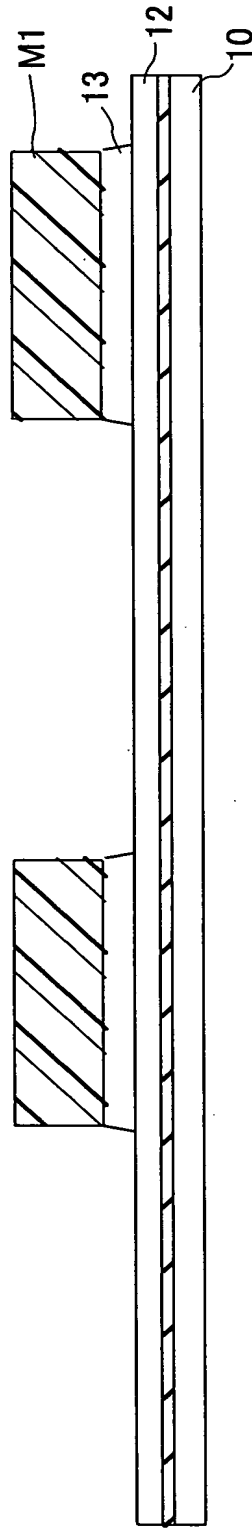


FIG. 6B

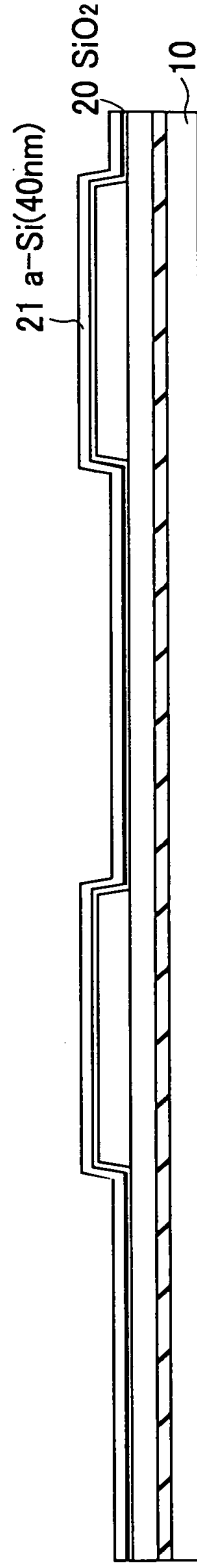


FIG. 6C

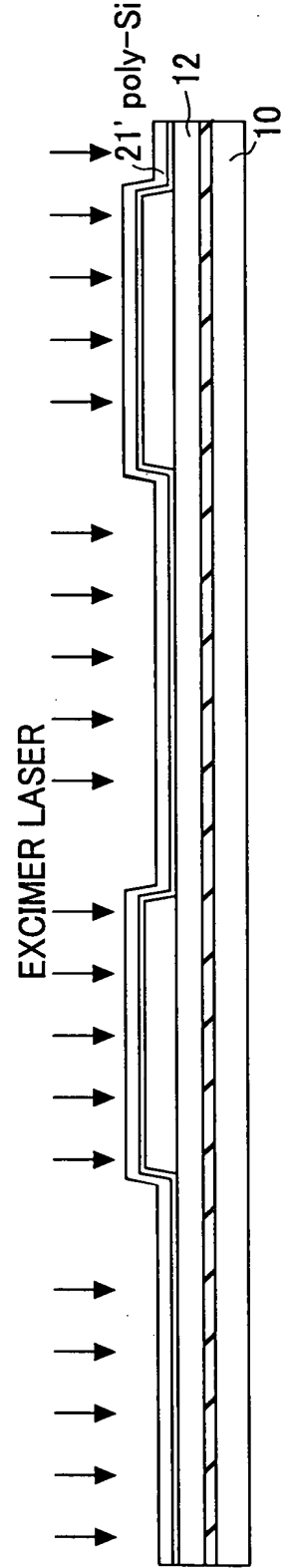


FIG. 6D

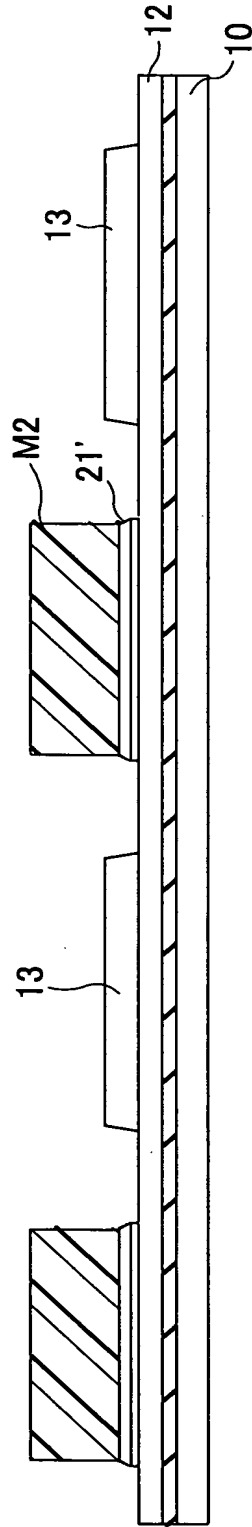


FIG. 6E

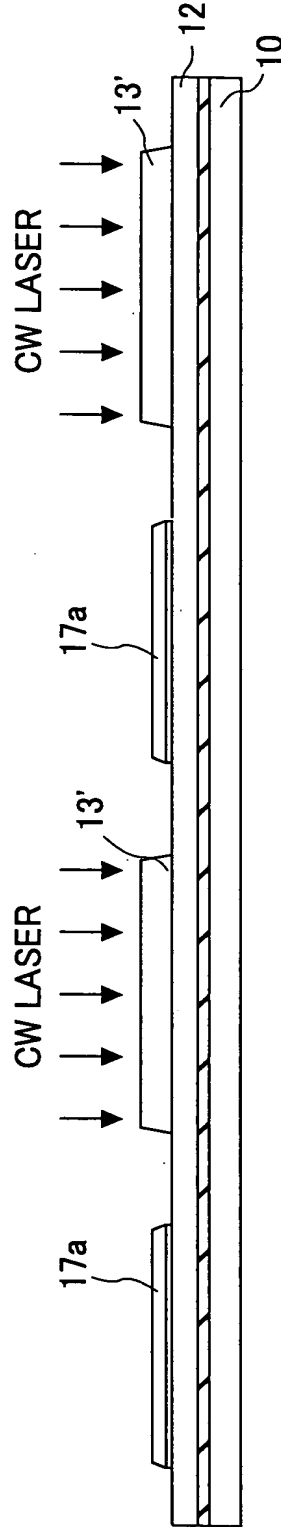


FIG. 6F

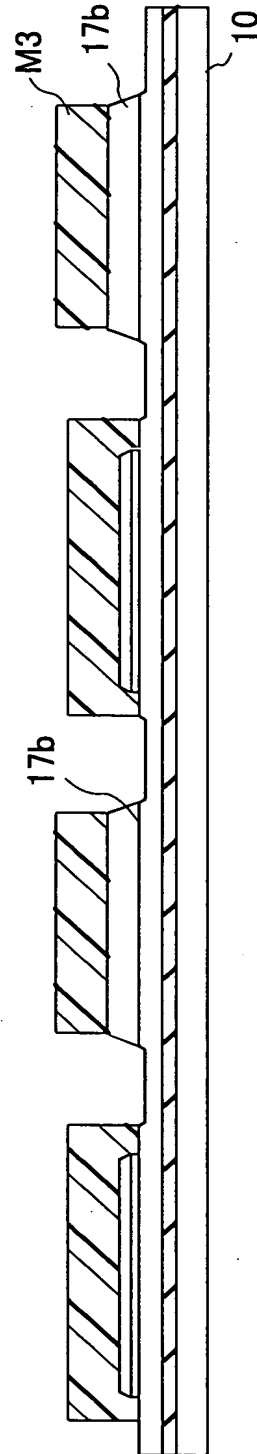


FIG. 6G

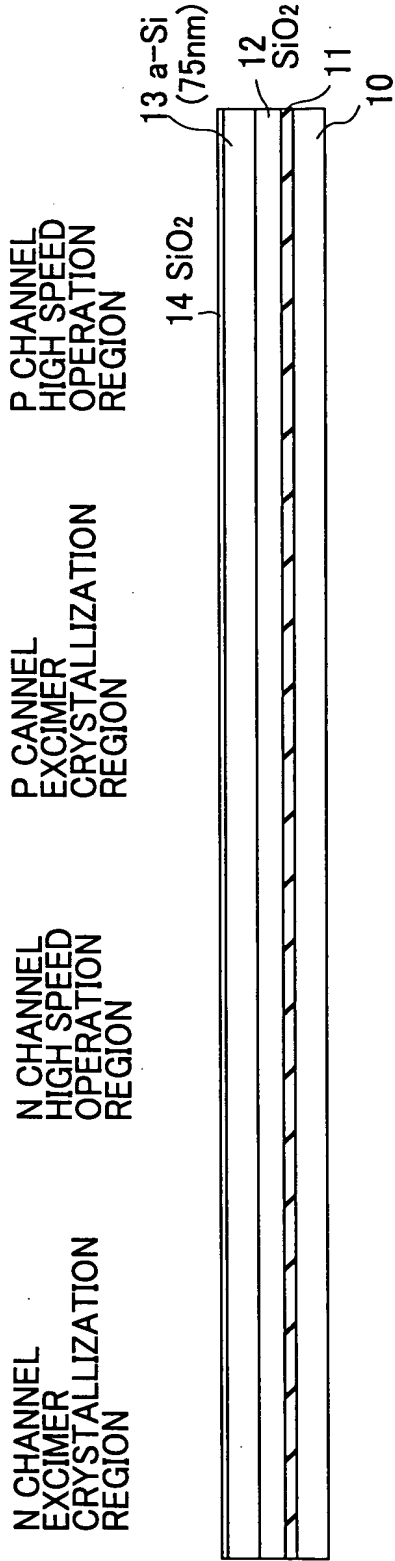


FIG. 7A

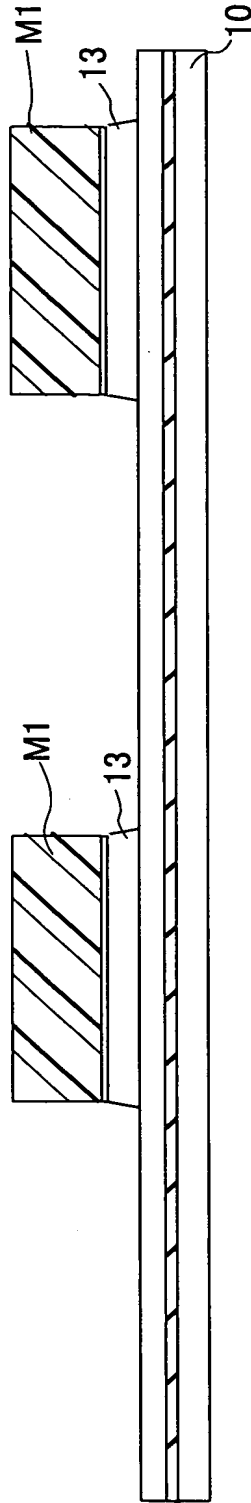


FIG. 7B

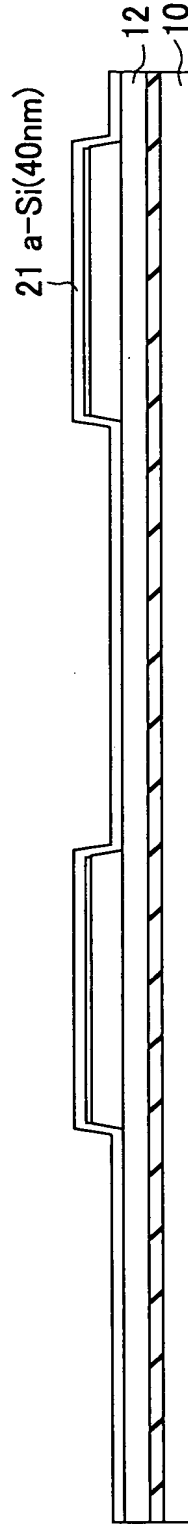


FIG. 7C

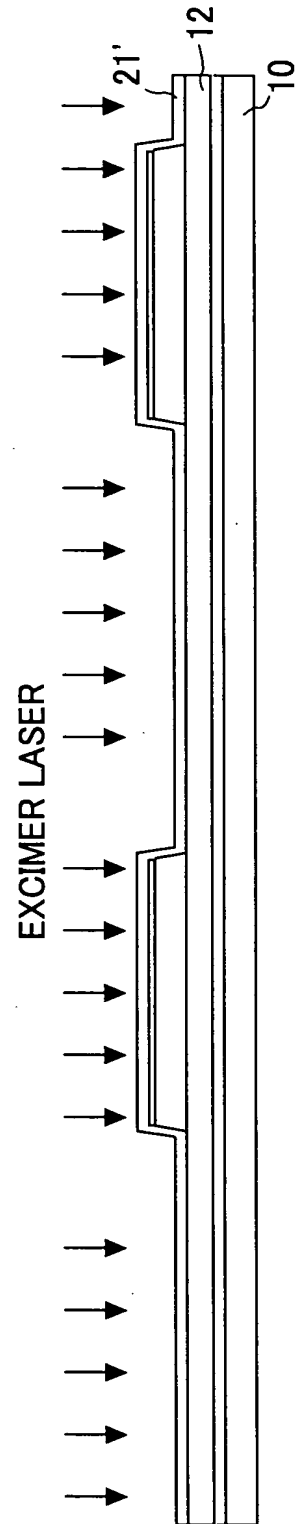


FIG. 7D

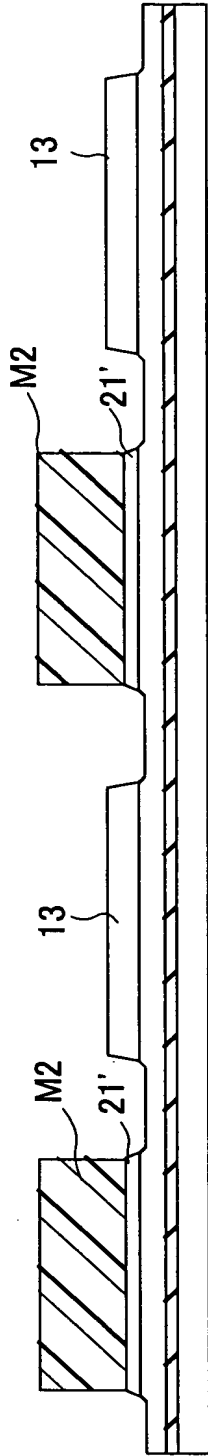


FIG. 7E

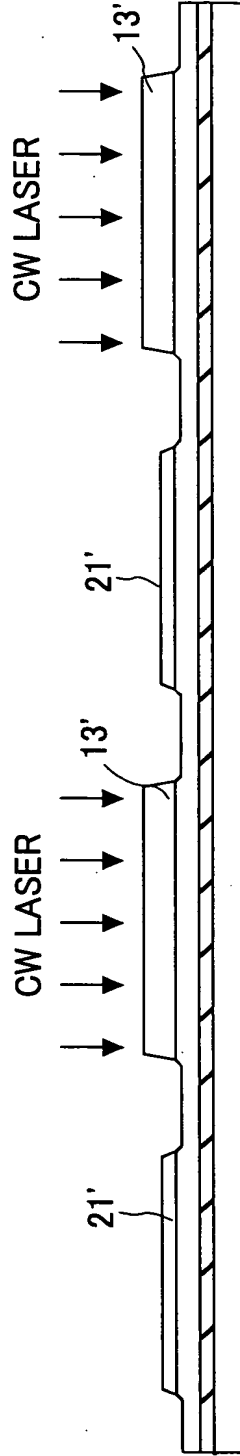


FIG. 7F

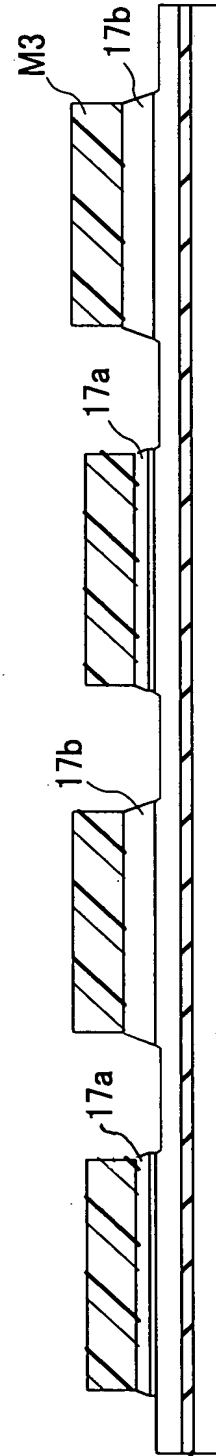


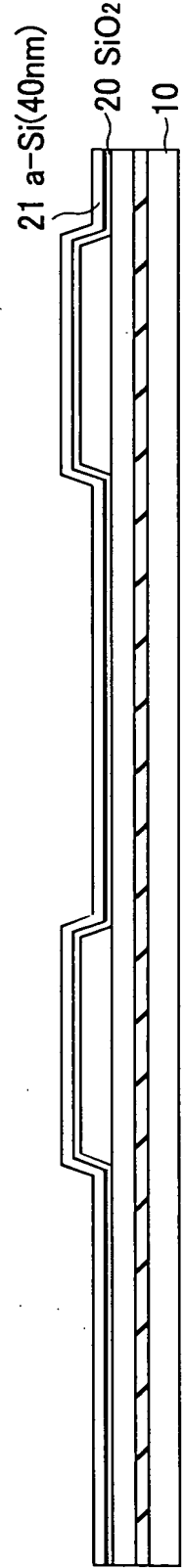
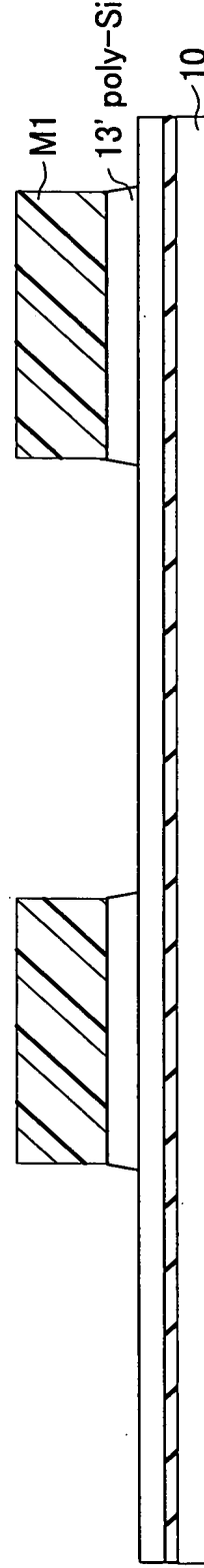
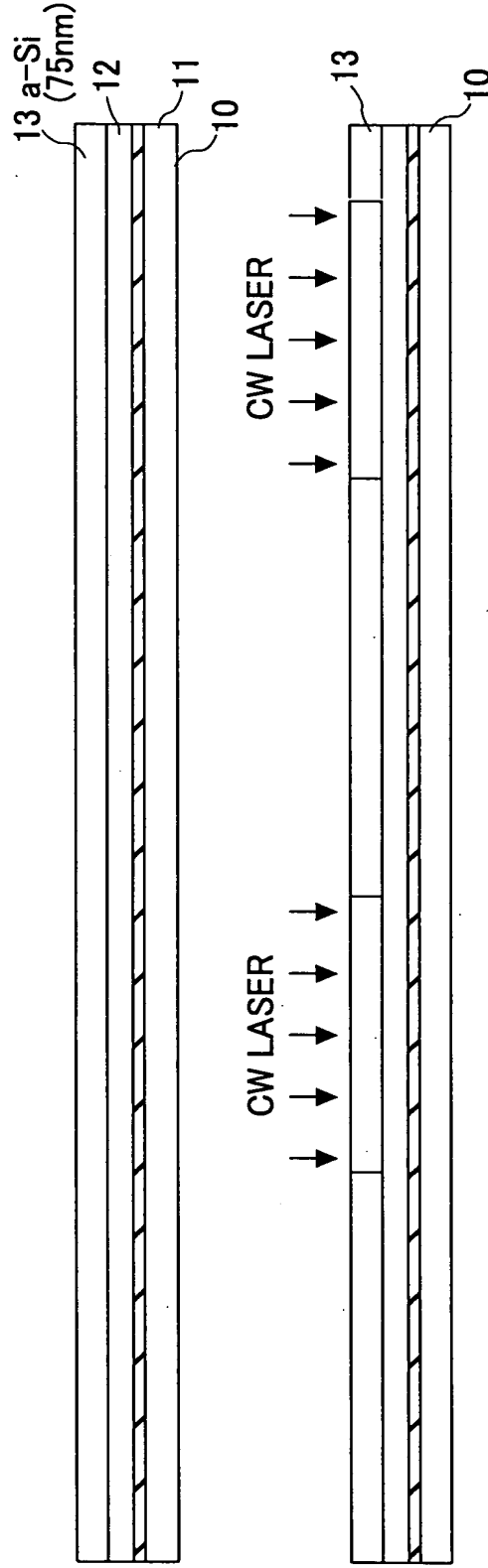
FIG. 7G

P CHANNEL
HIGH SPEED
OPERATION
REGION

P CANNEL
EXCIMER
CRYSTALLIZATION
REGION

N CHANNEL
HIGH SPEED
OPERATION
REGION

N CHANNEL
EXCIMER
CRYSTALLIZATION
REGION



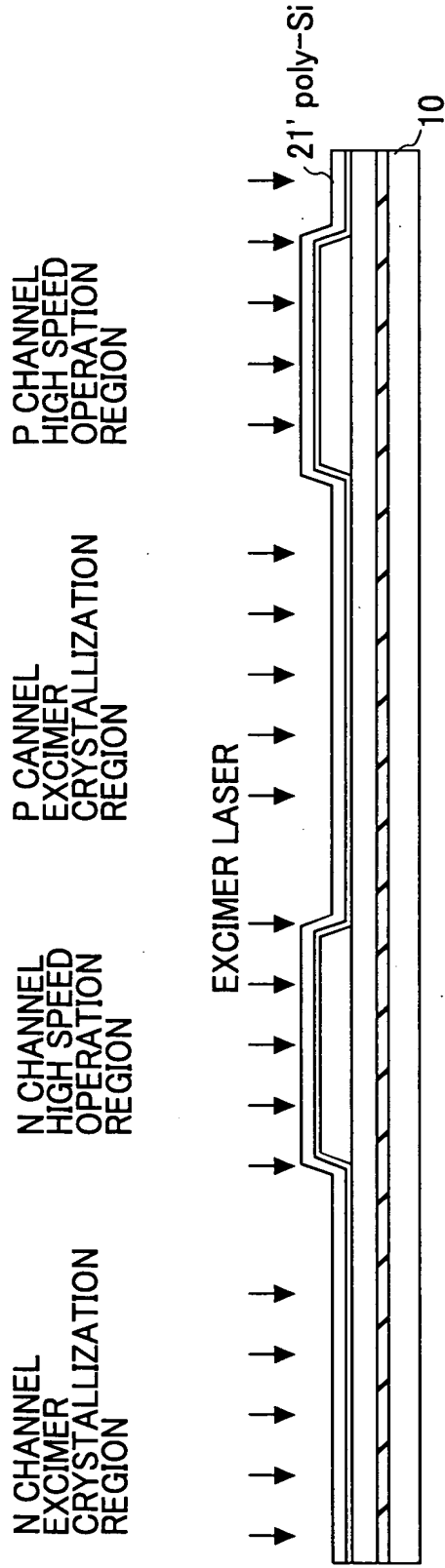


FIG. 8E

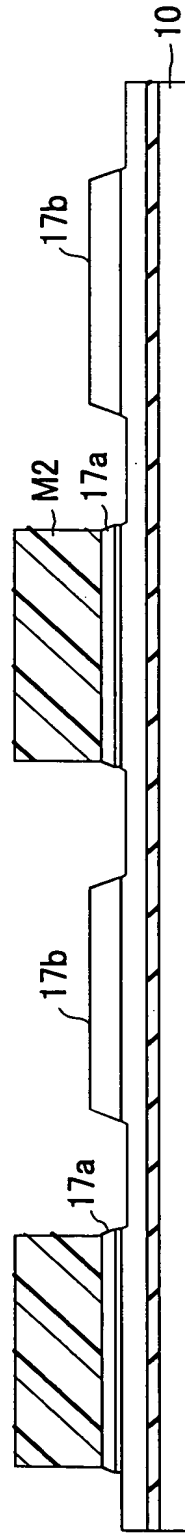


FIG. 8F

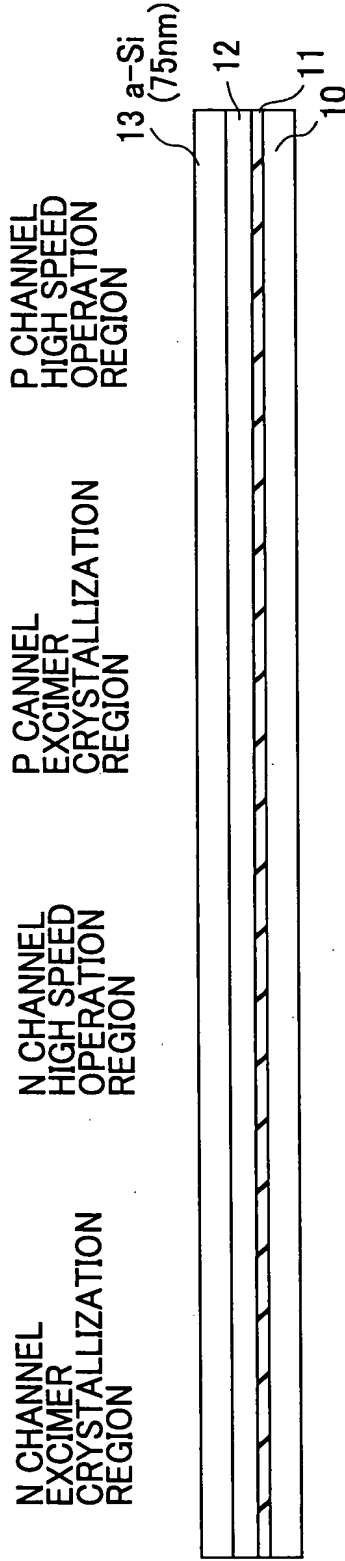


FIG. 9A

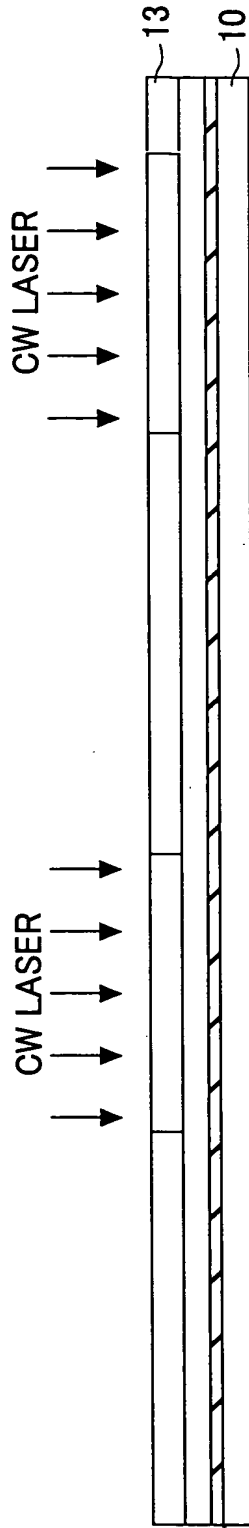


FIG. 9B

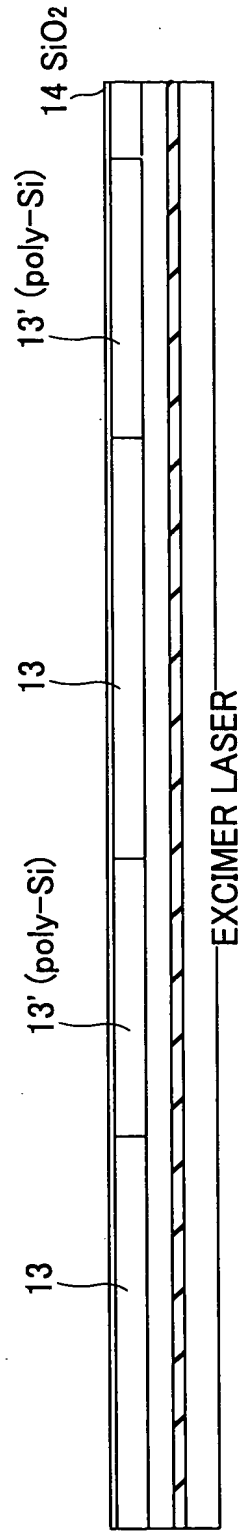


FIG. 9C

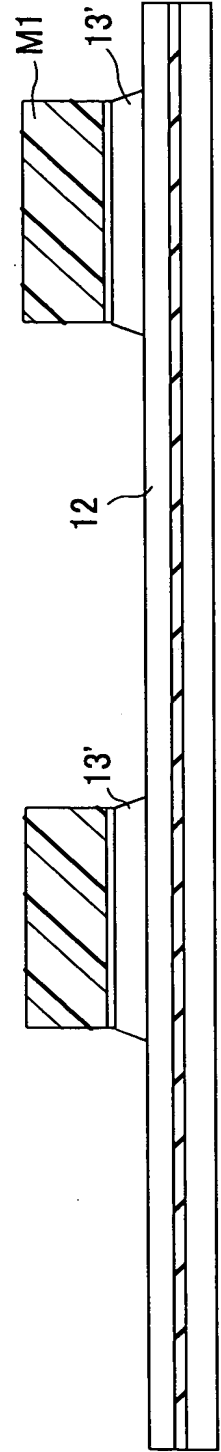


FIG. 9D

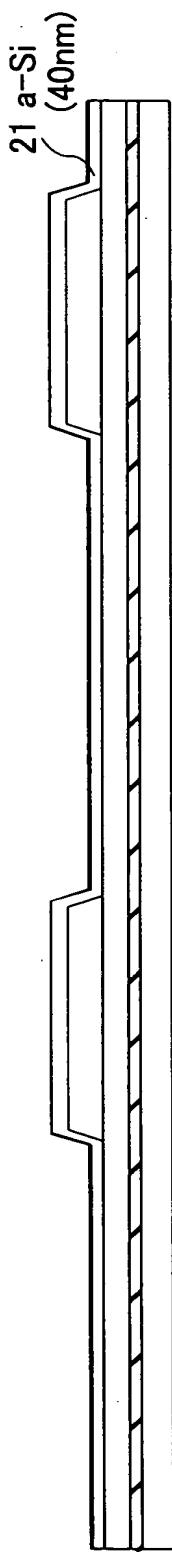


FIG. 9E

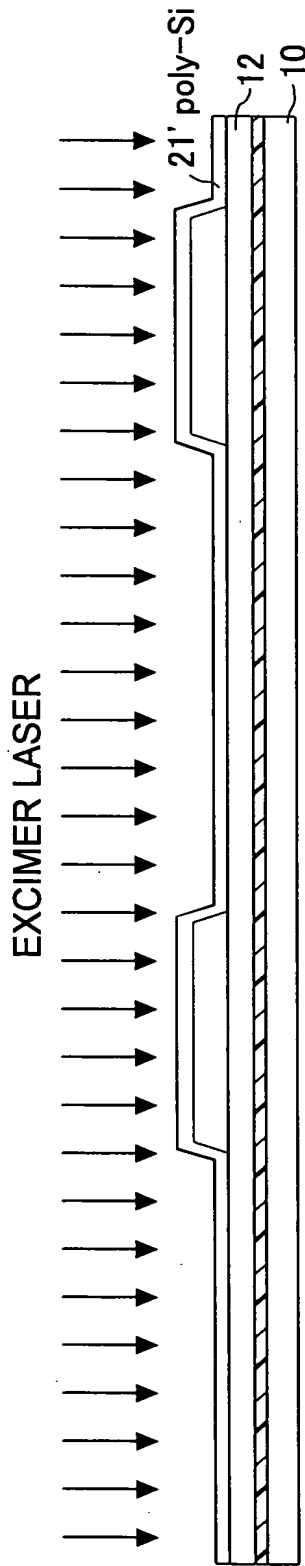


FIG. 9F

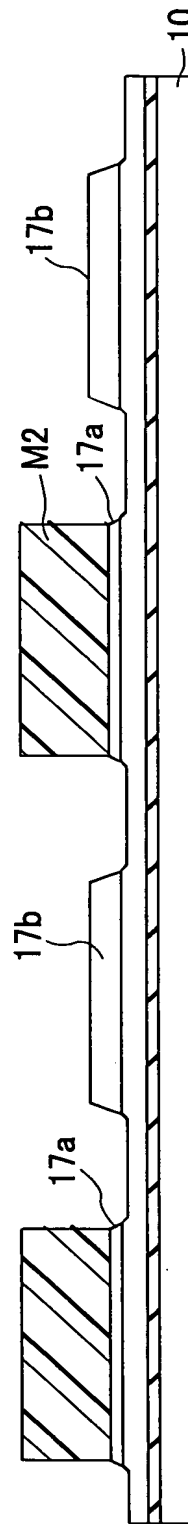


FIG. 9G

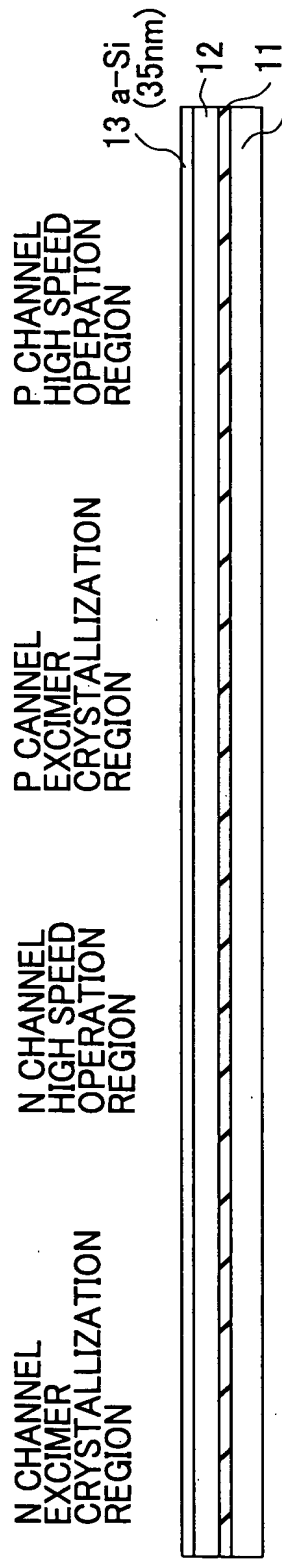


FIG. 10A

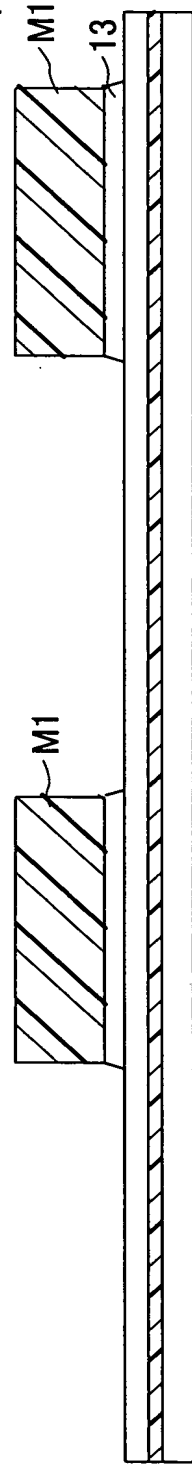


FIG. 10B

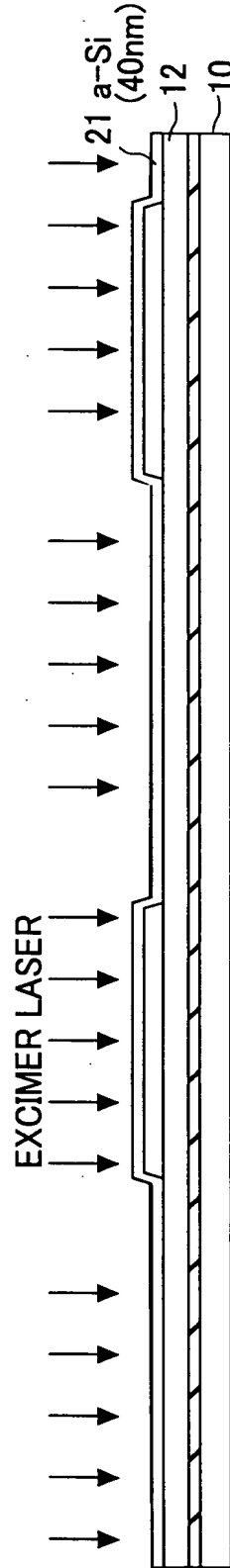


FIG. 10C

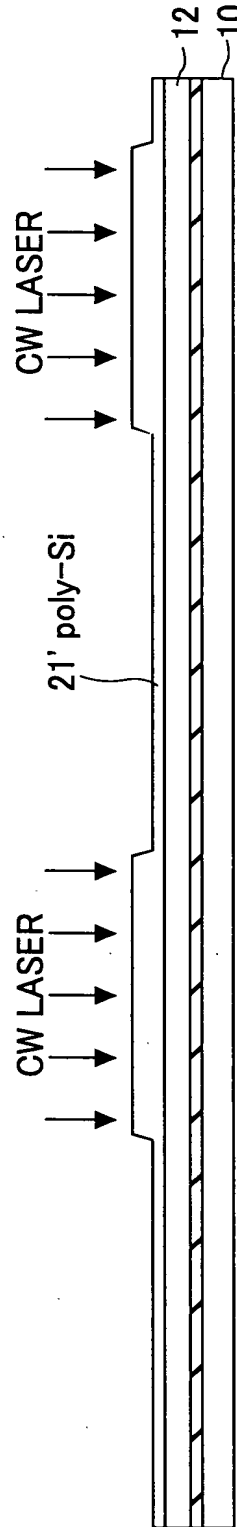


FIG. 10D

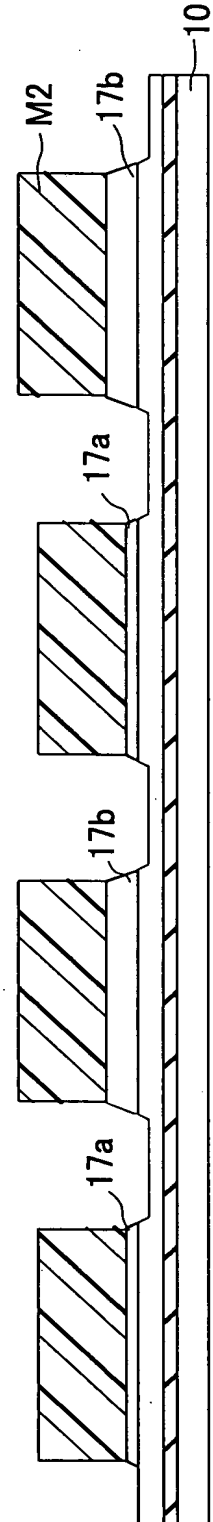


FIG. 10E

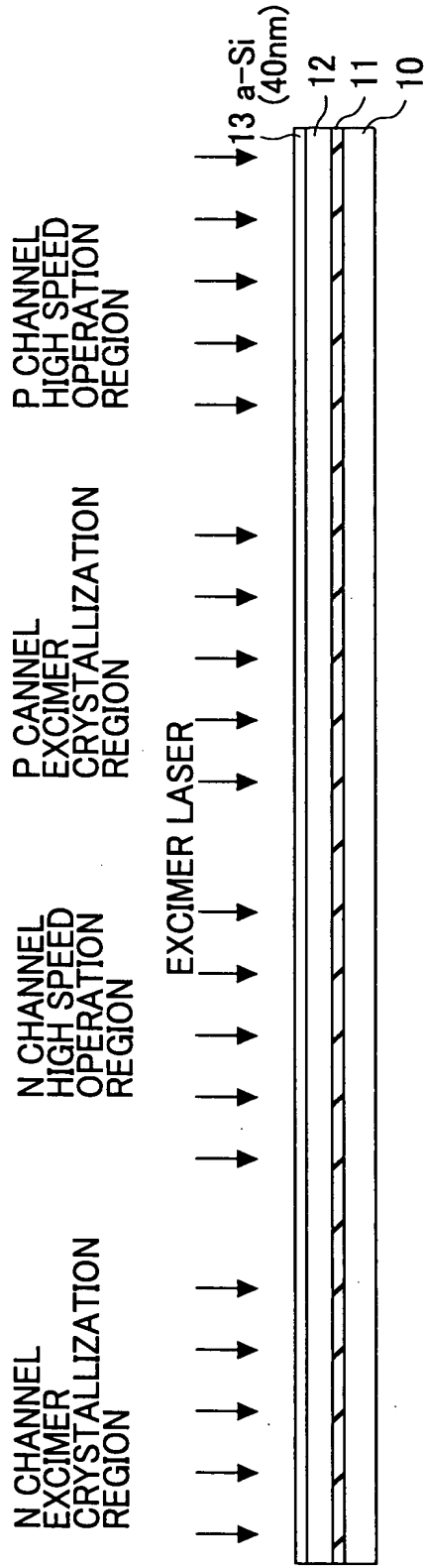


FIG. 11A

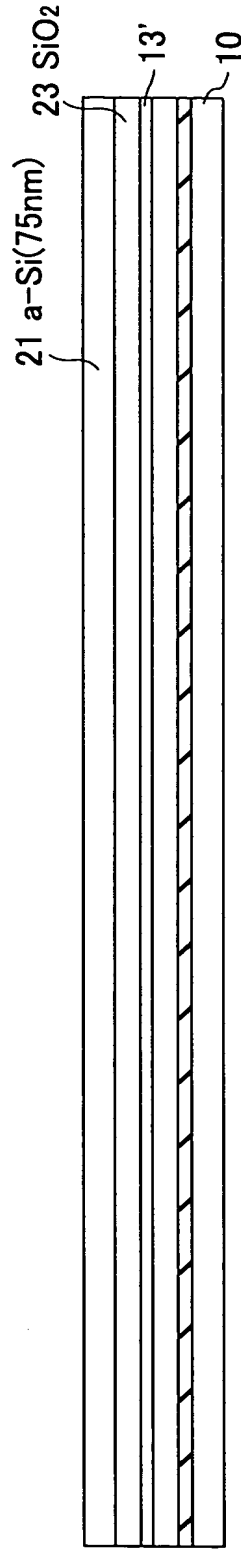


FIG. 11B

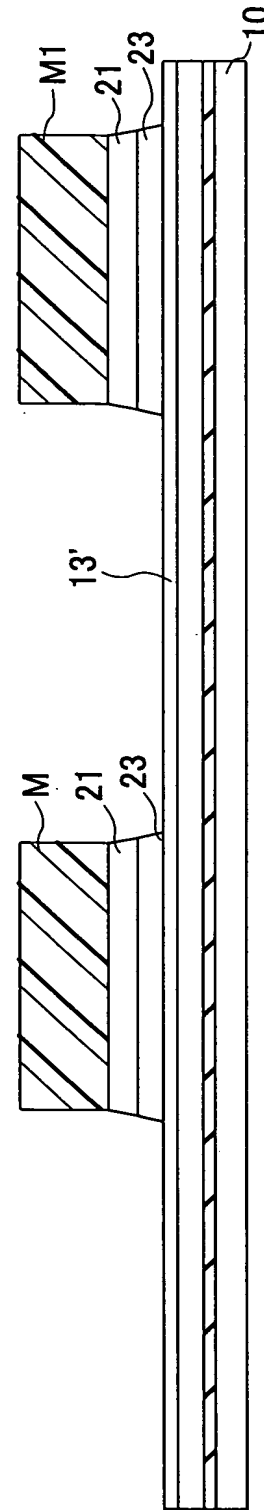


FIG. 11C

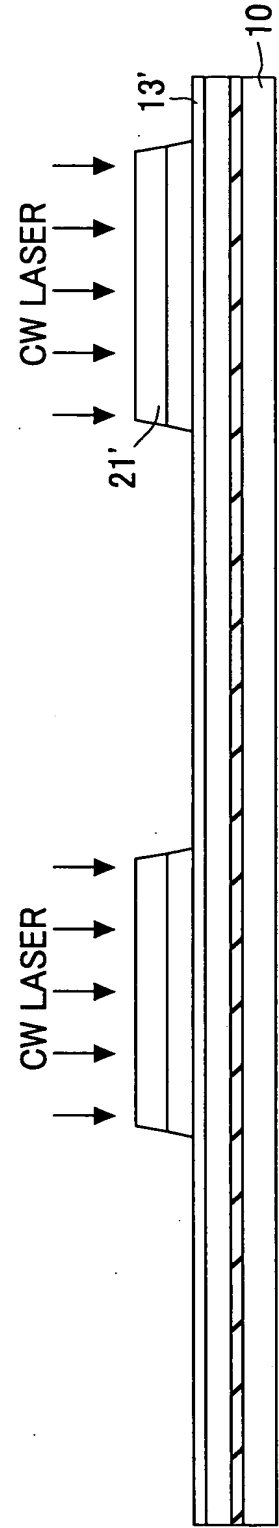


FIG. 11D

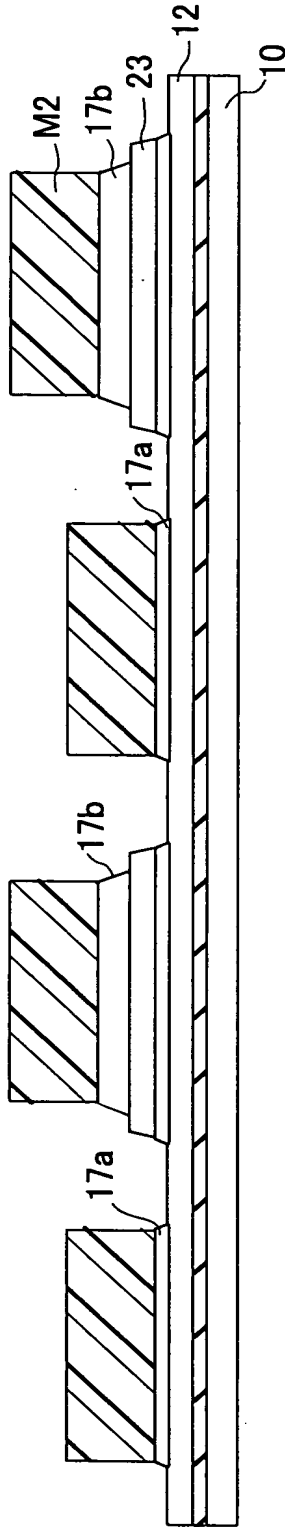


FIG. 11E

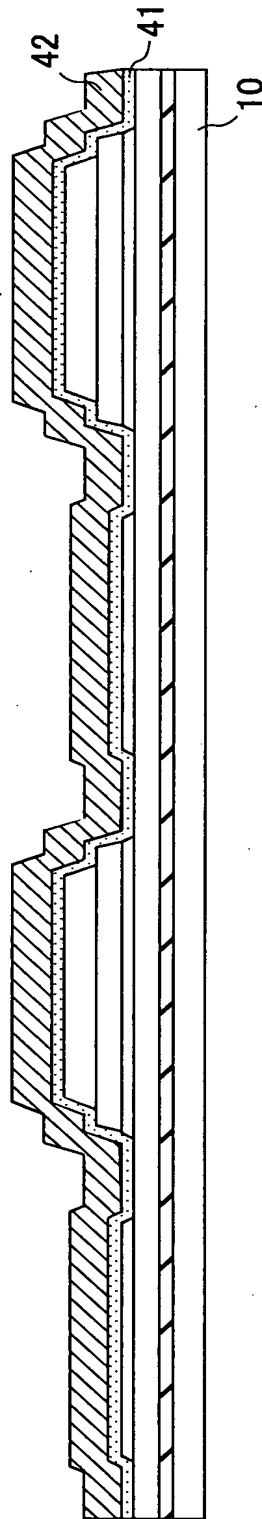


FIG. 11F

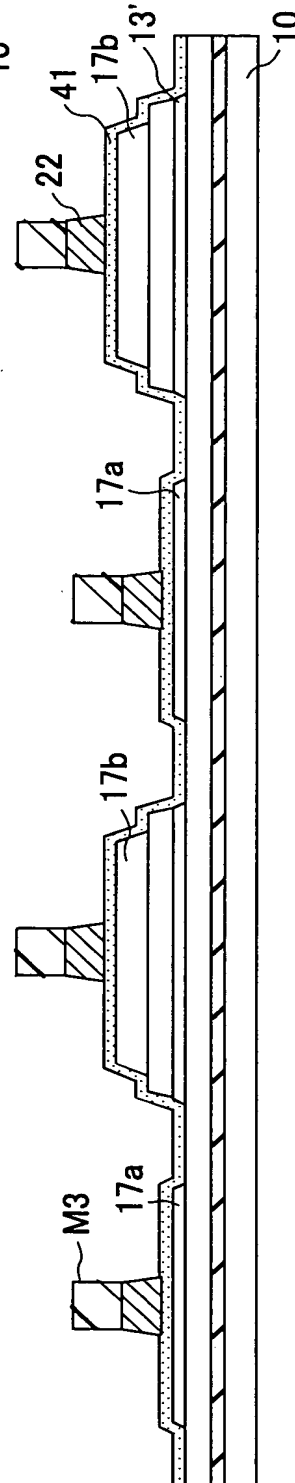


FIG. 11G

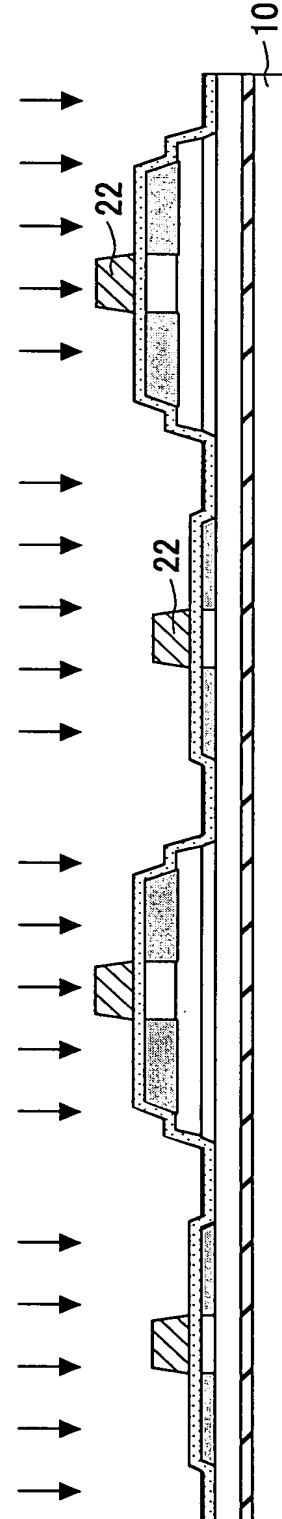


FIG. 11H

LOW CONCENTRATION PION IMPLANTATION

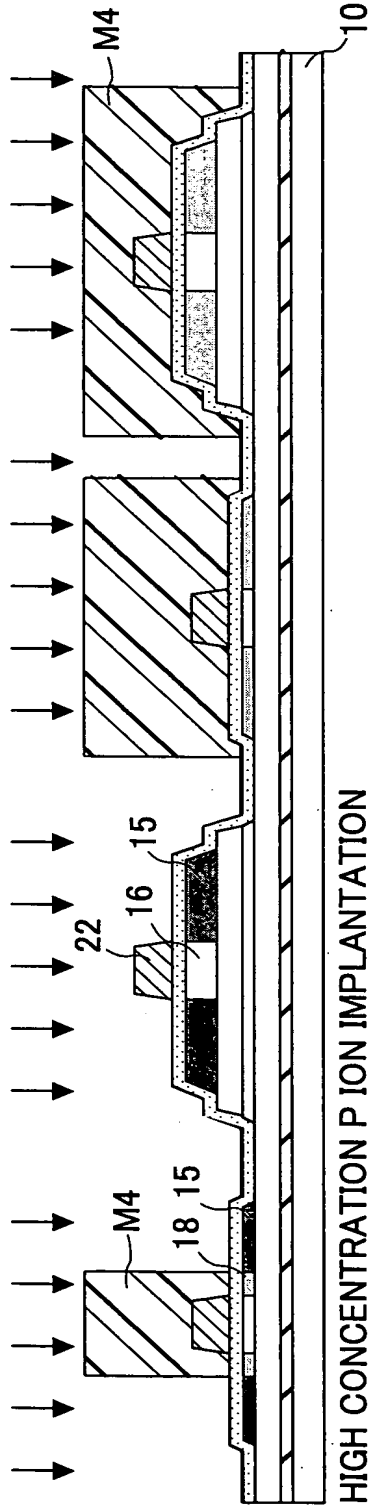


FIG. 11I

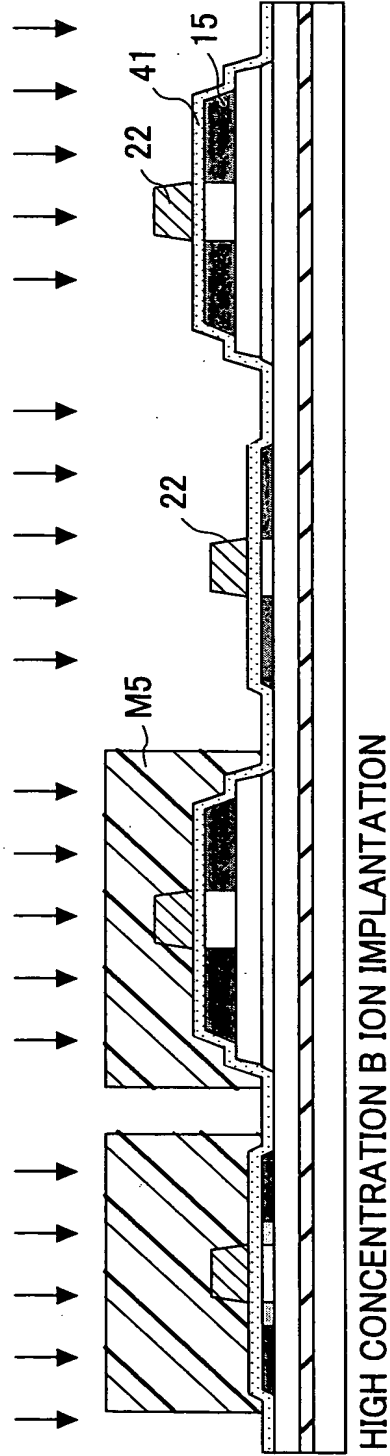


FIG. 11J

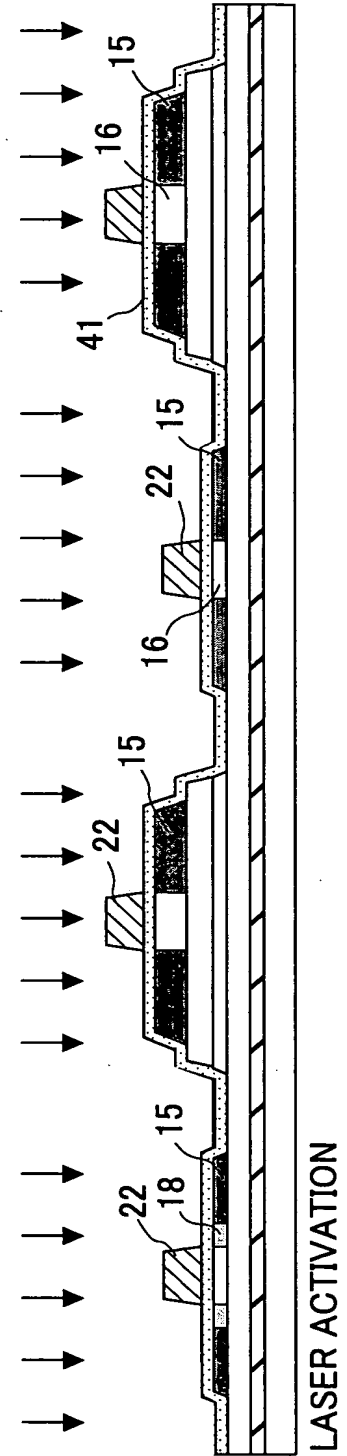


FIG. 11K

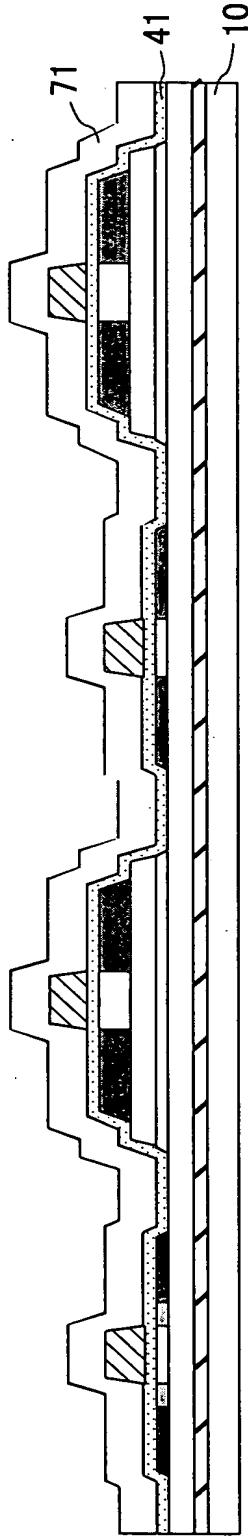


FIG. 11L

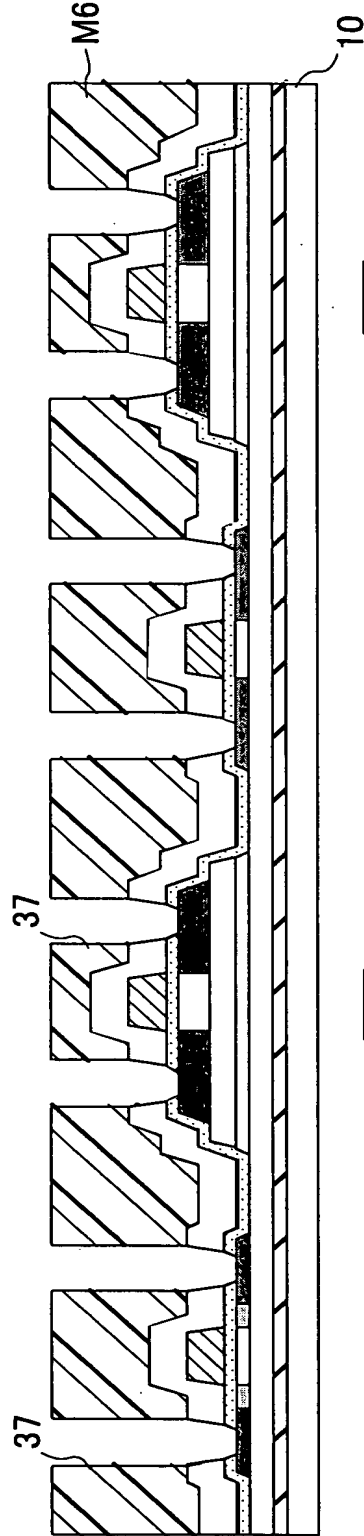


FIG. 11M

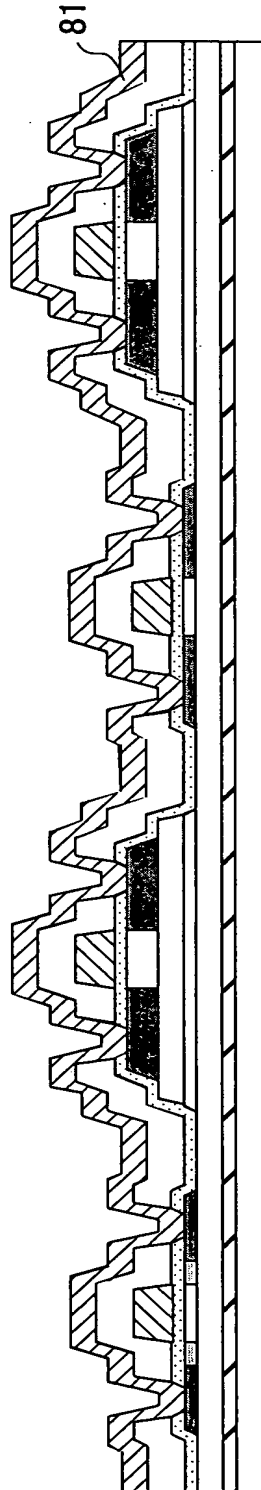


FIG. 11N

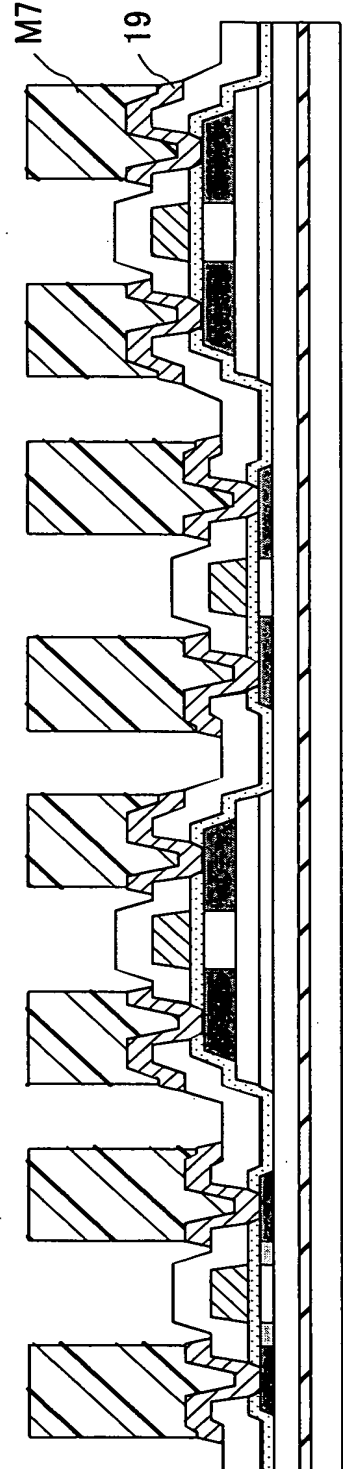


FIG. 11O

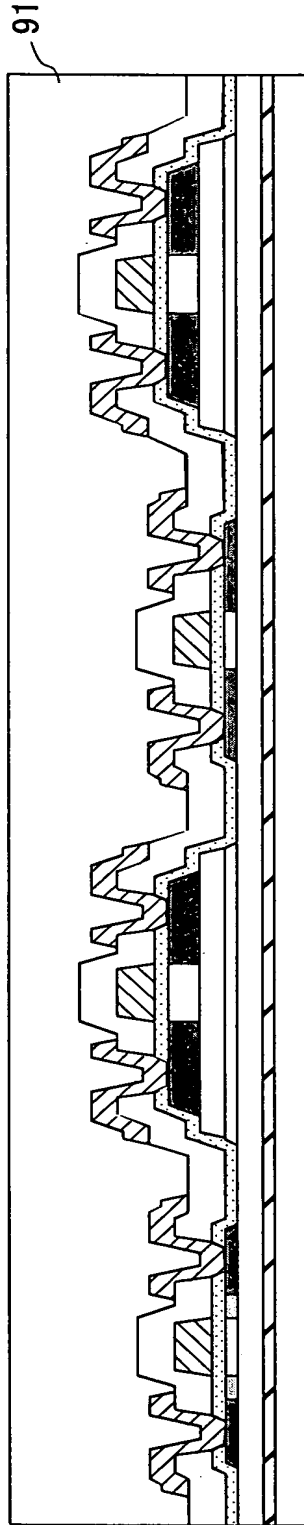


FIG.11P

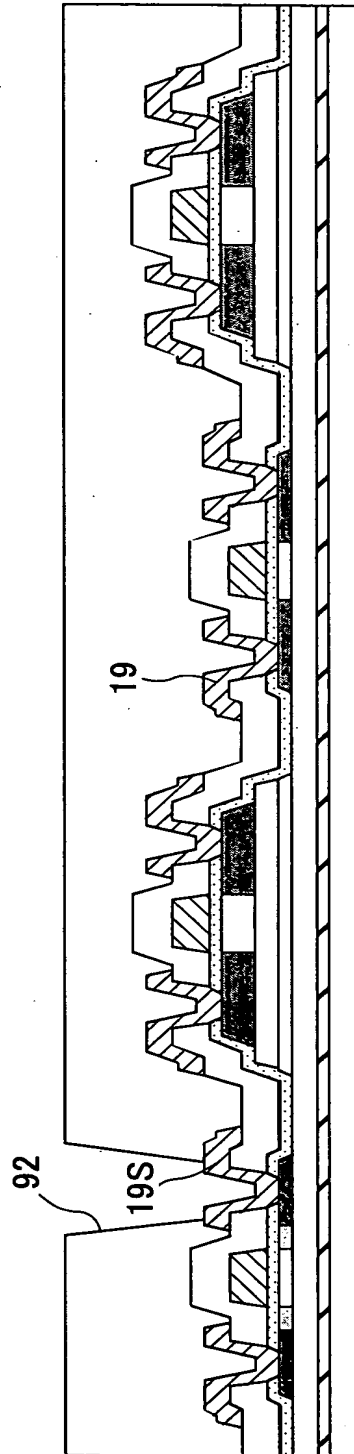


FIG.11Q

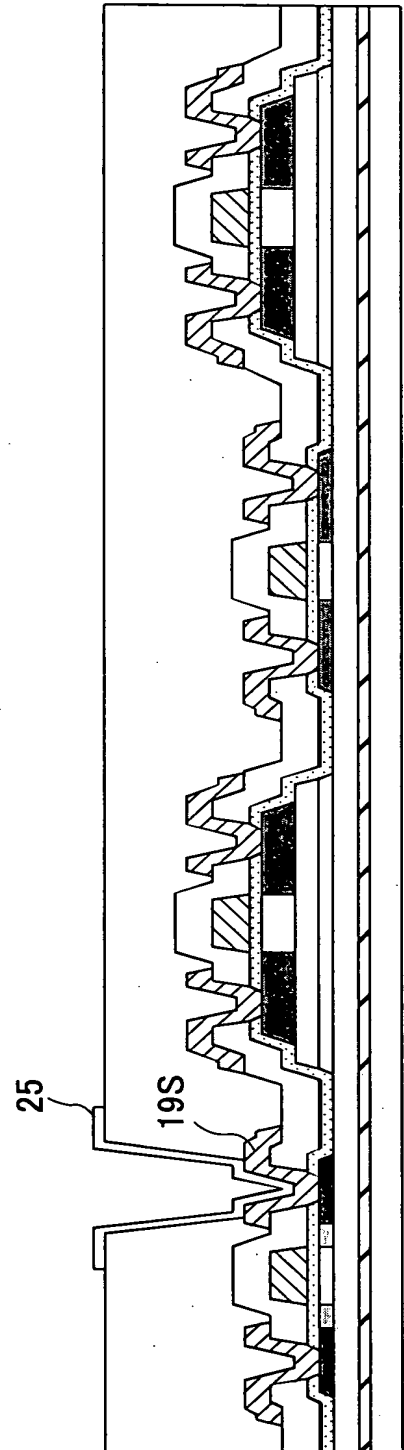


FIG.11R

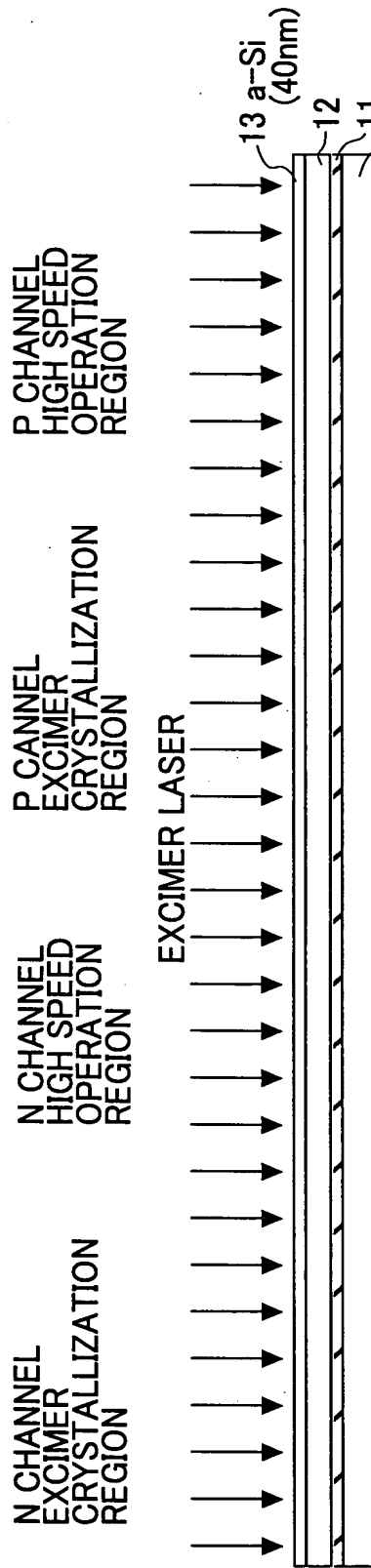


FIG. 12A

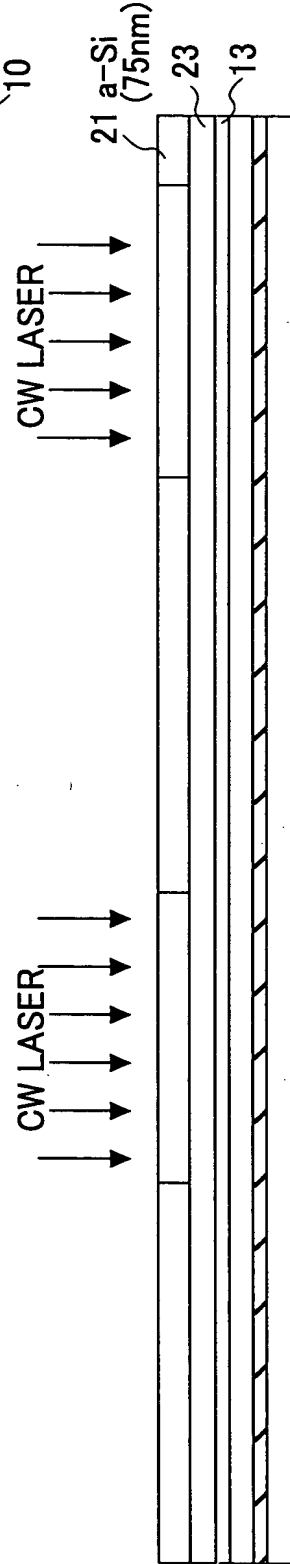


FIG. 12B

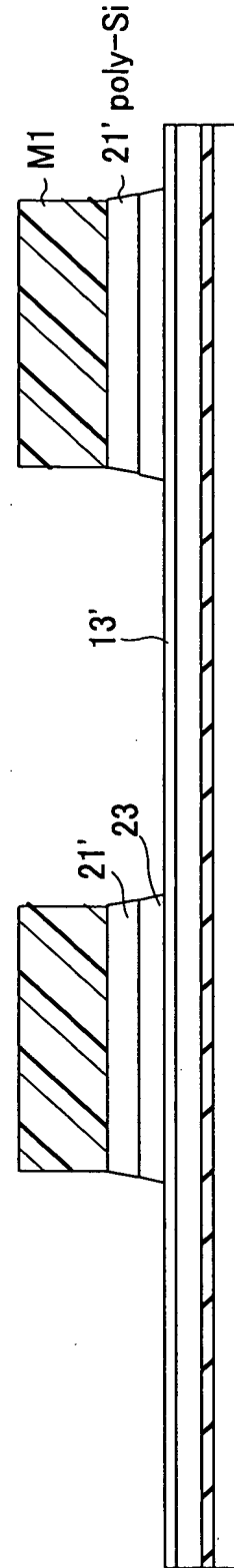


FIG. 12C

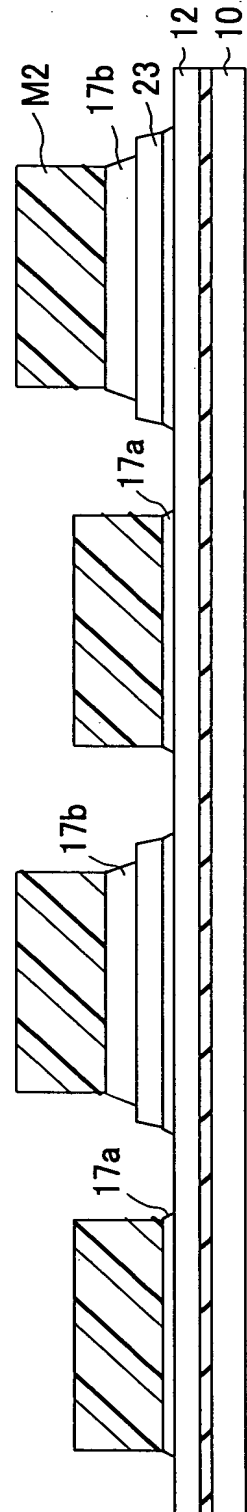


FIG. 12D

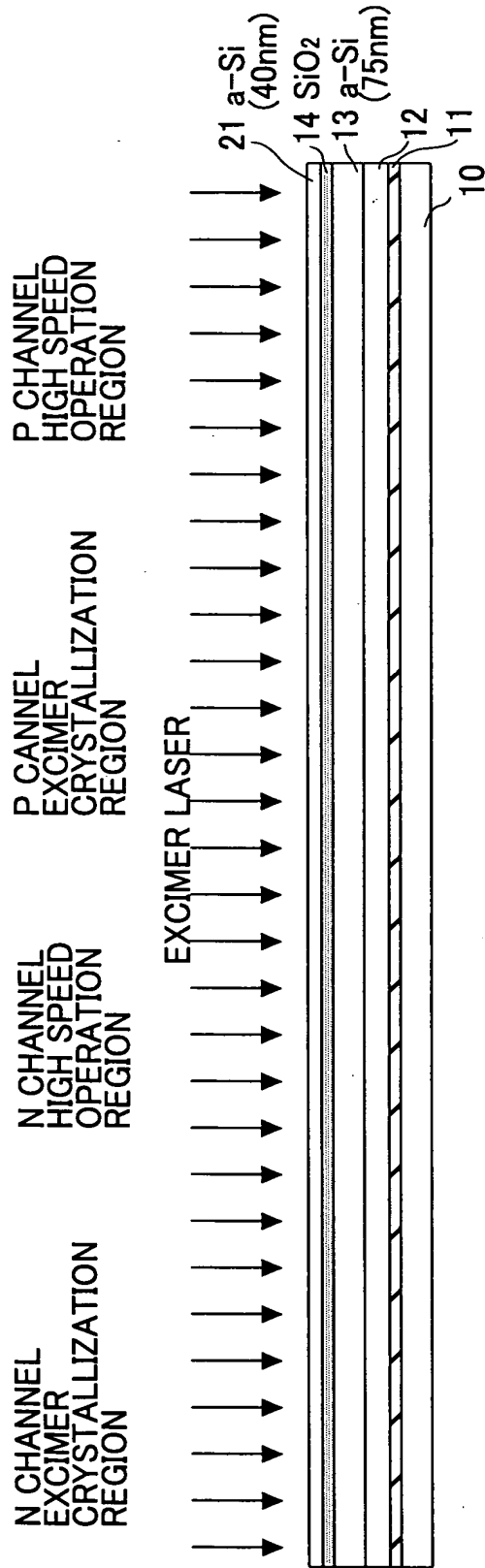


FIG. 13A

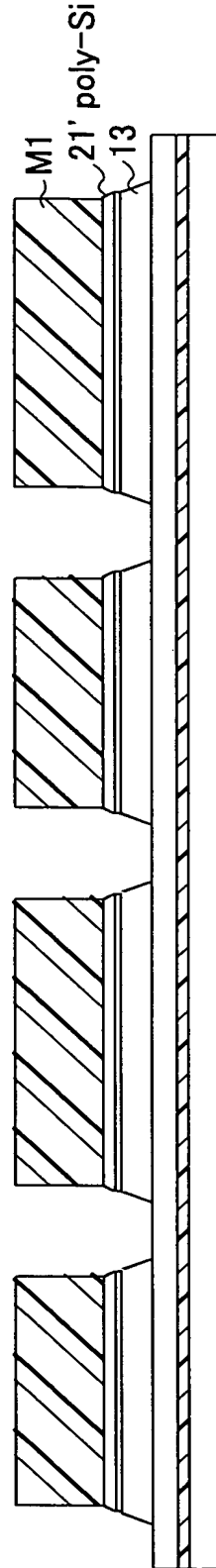


FIG. 13B

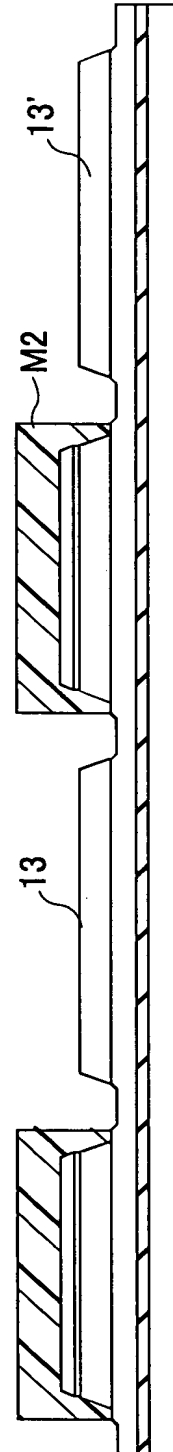


FIG. 13C

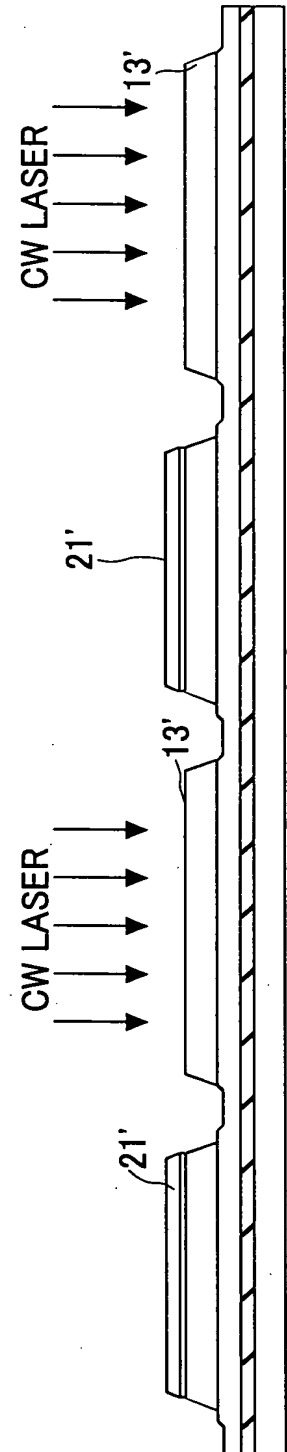


FIG. 13D

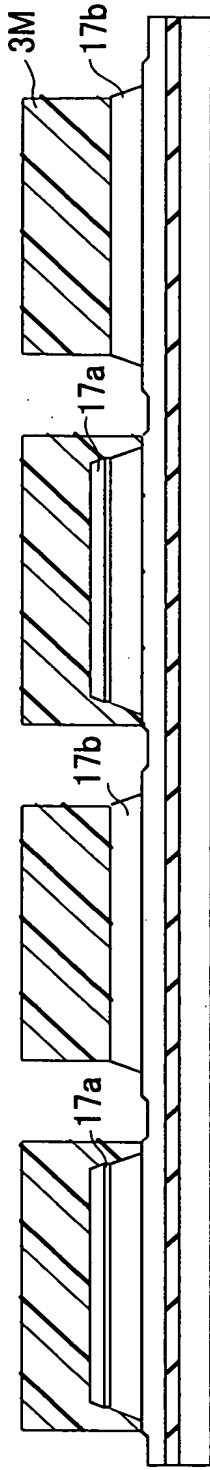


FIG. 13E

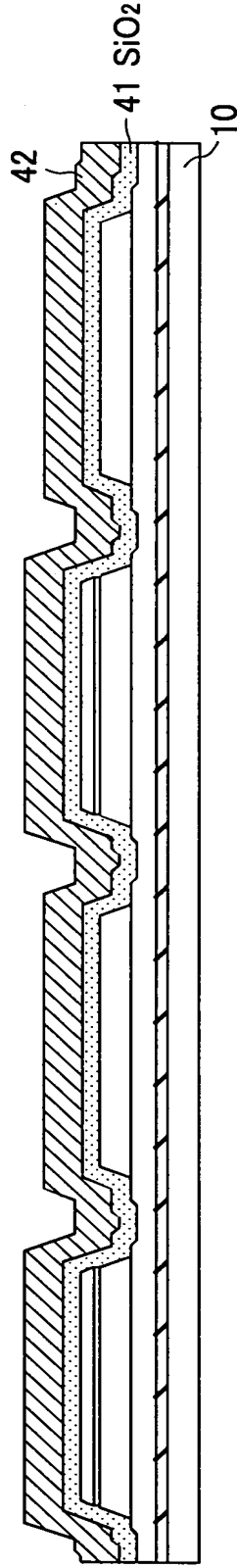


FIG. 13F

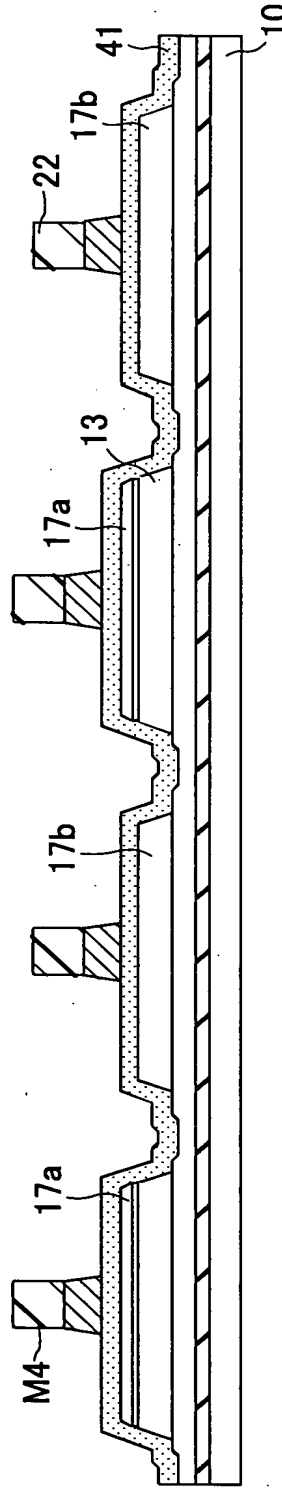


FIG. 13G

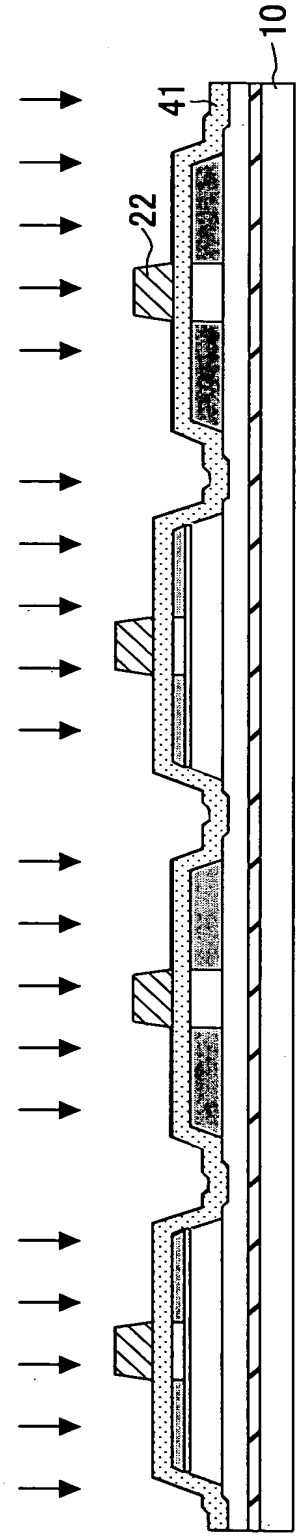


FIG. 13H

LOW CONCENTRATION P ION IMPLANTATION

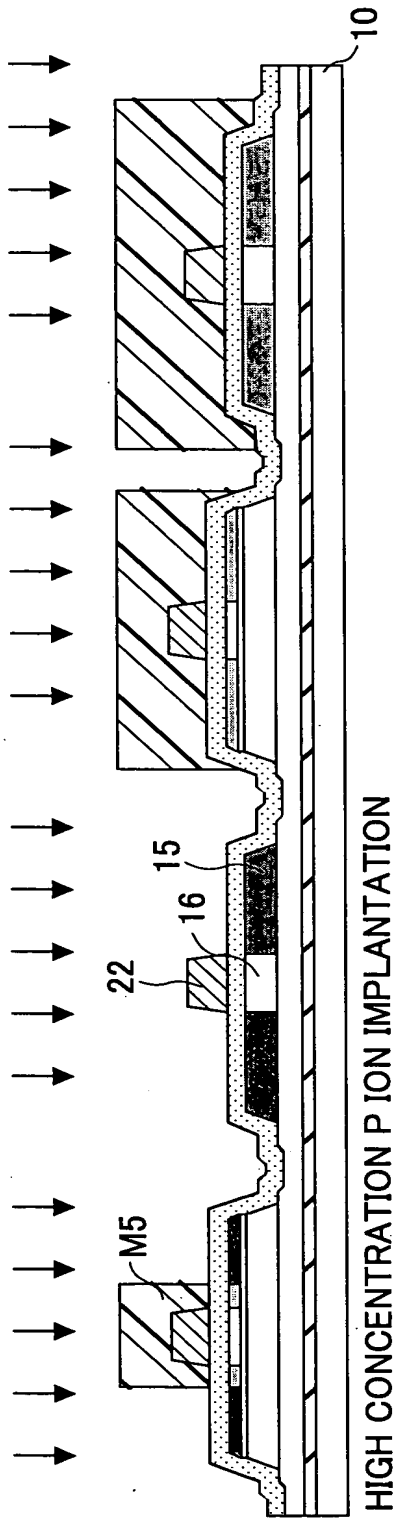


FIG.13I

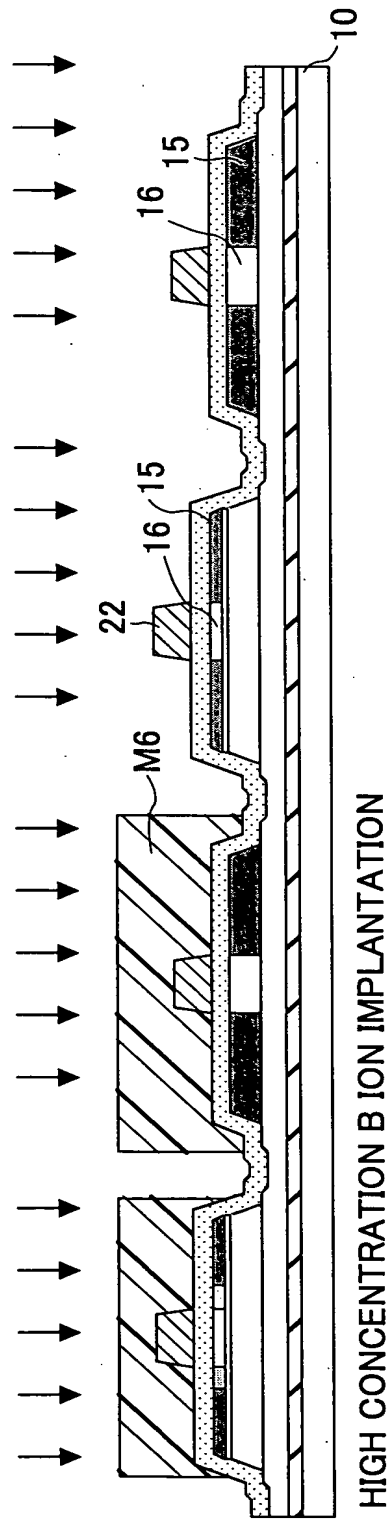


FIG.13J

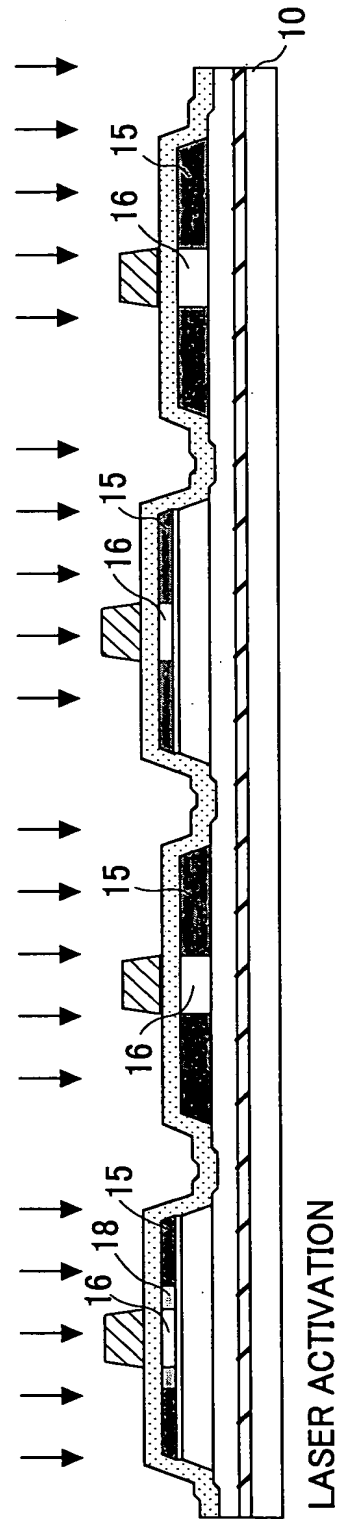


FIG.13K

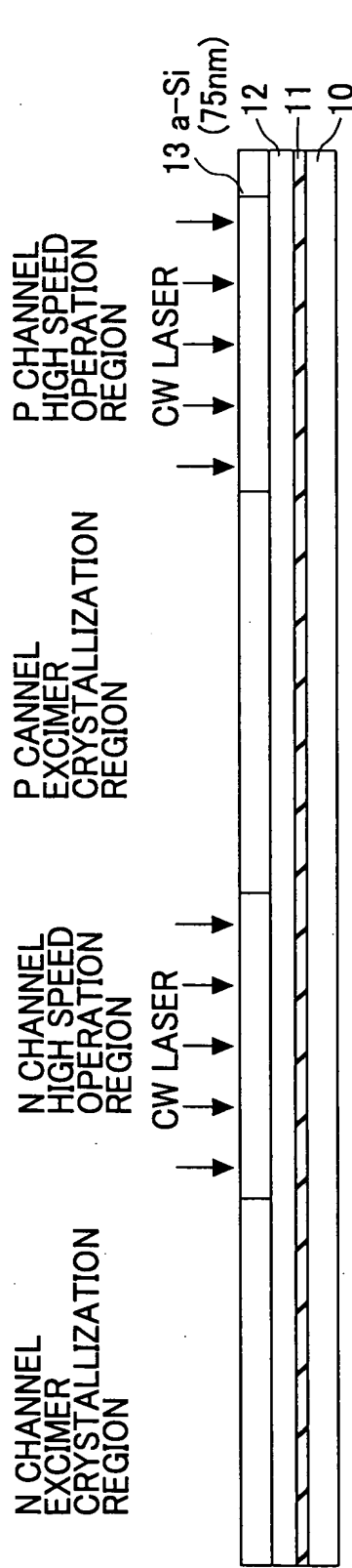


FIG. 14A

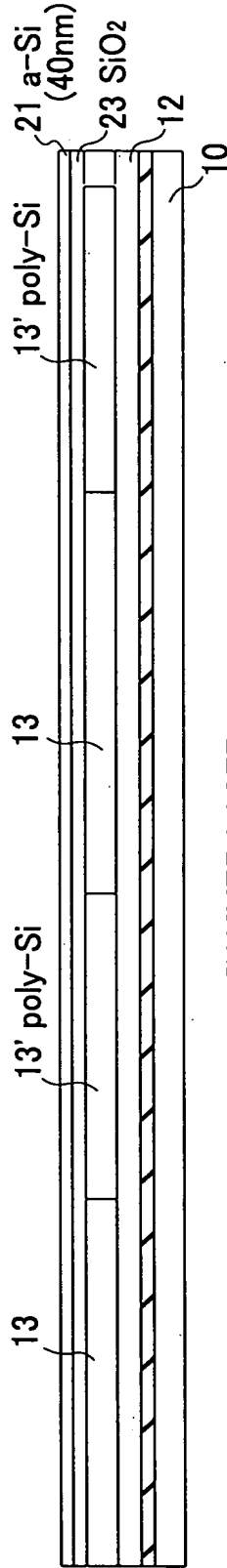


FIG. 14B

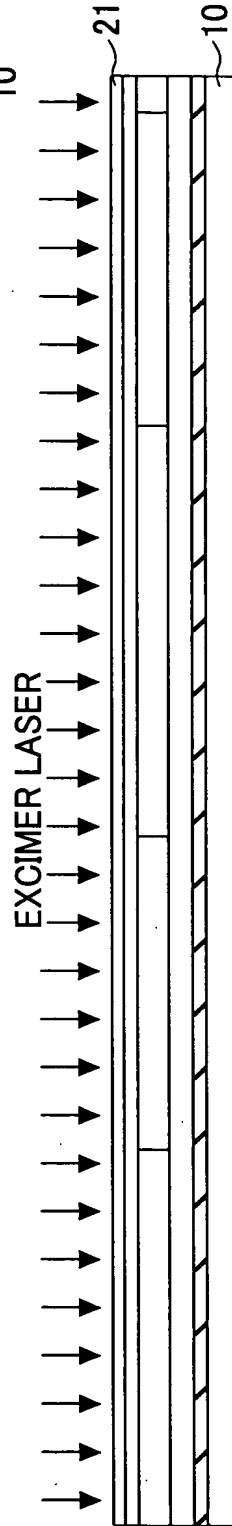


FIG. 14C

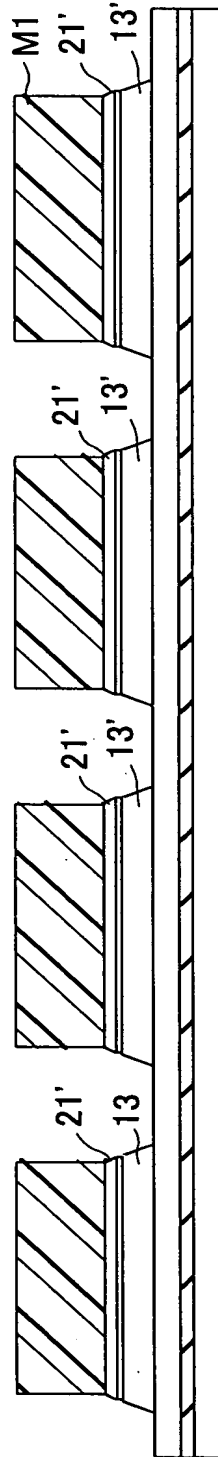


FIG. 14D

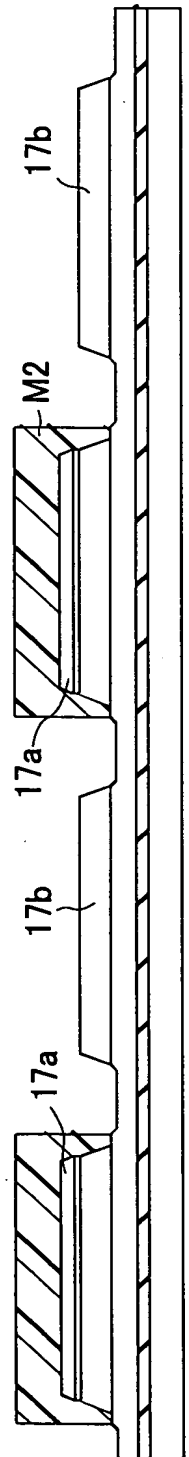
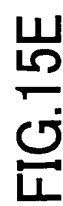


FIG. 14E



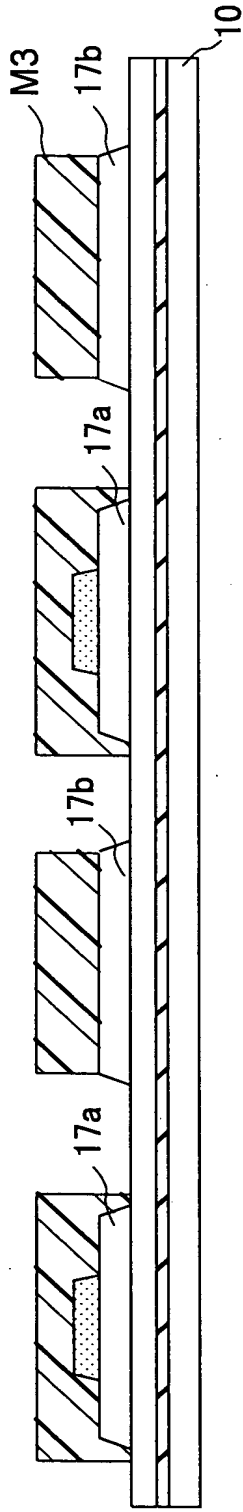


FIG. 15F

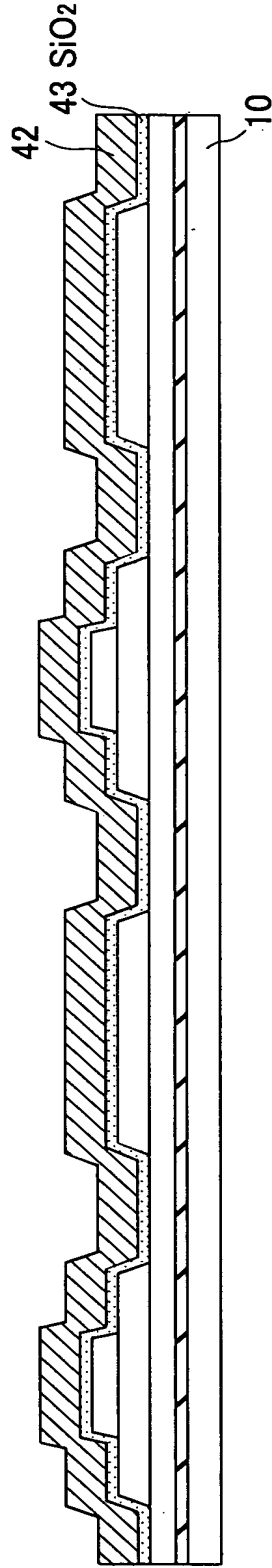


FIG. 15G

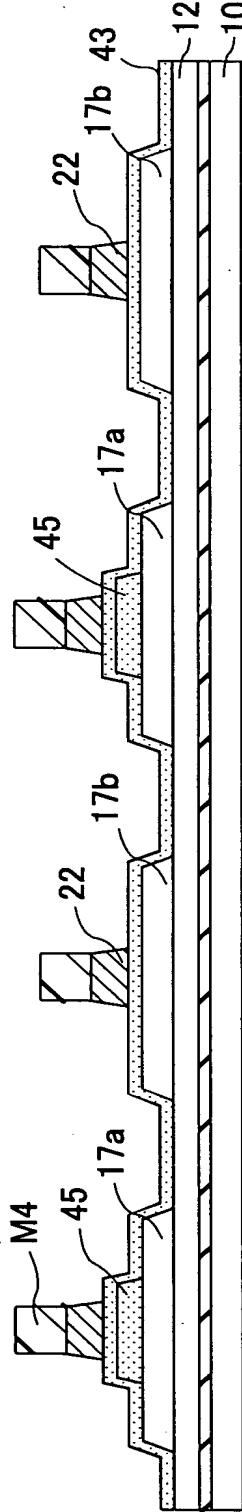


FIG. 15H

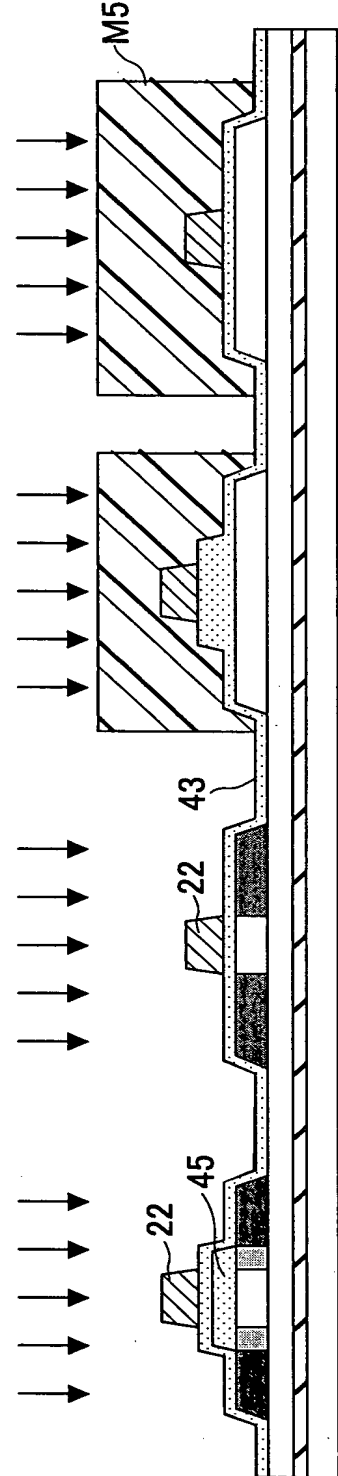


FIG. 15I

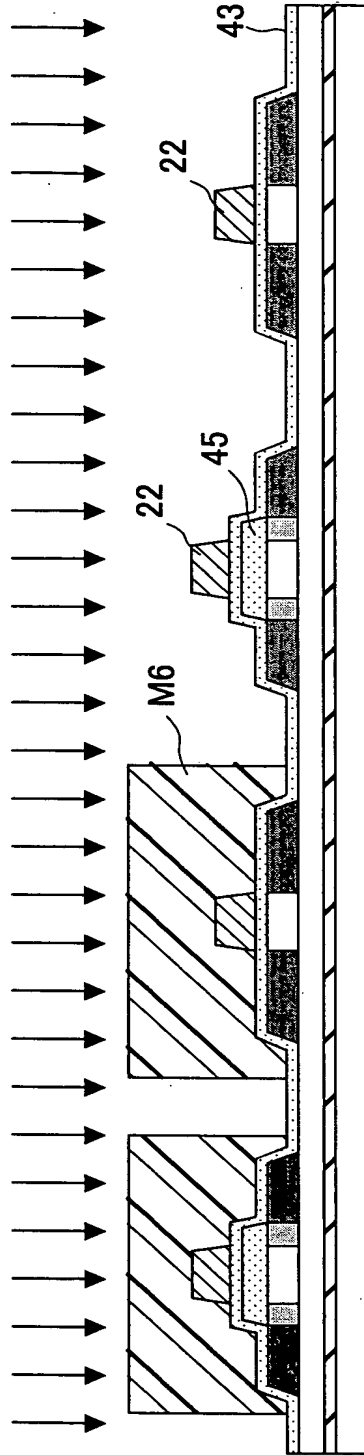


FIG. 15J

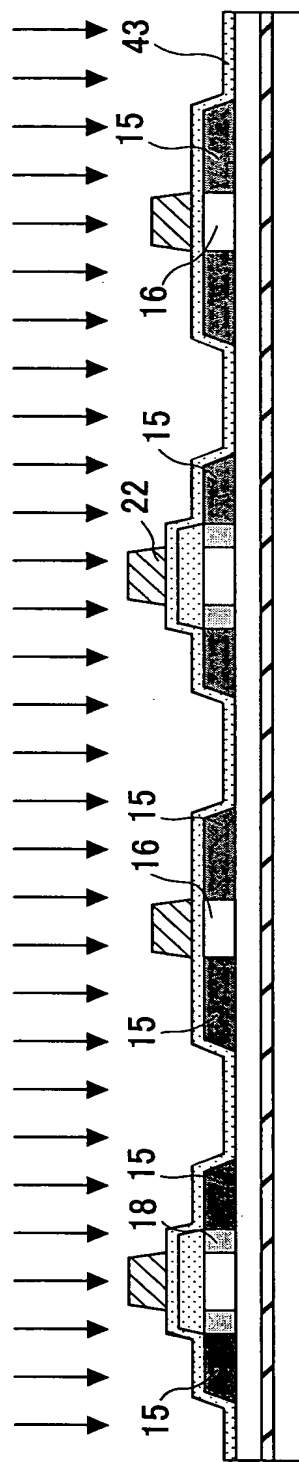


FIG. 15K

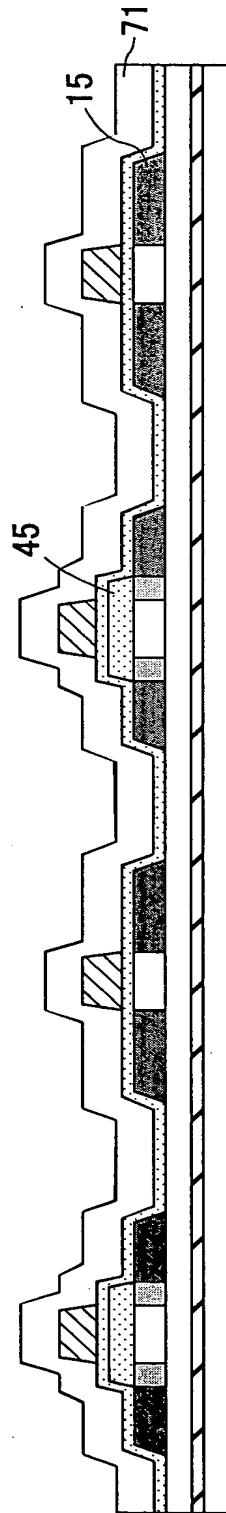


FIG. 15L

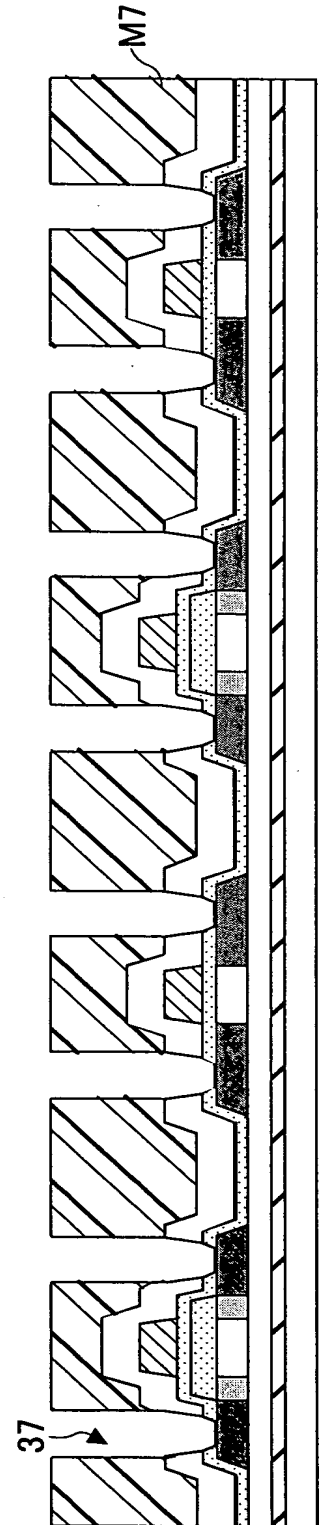


FIG. 15M

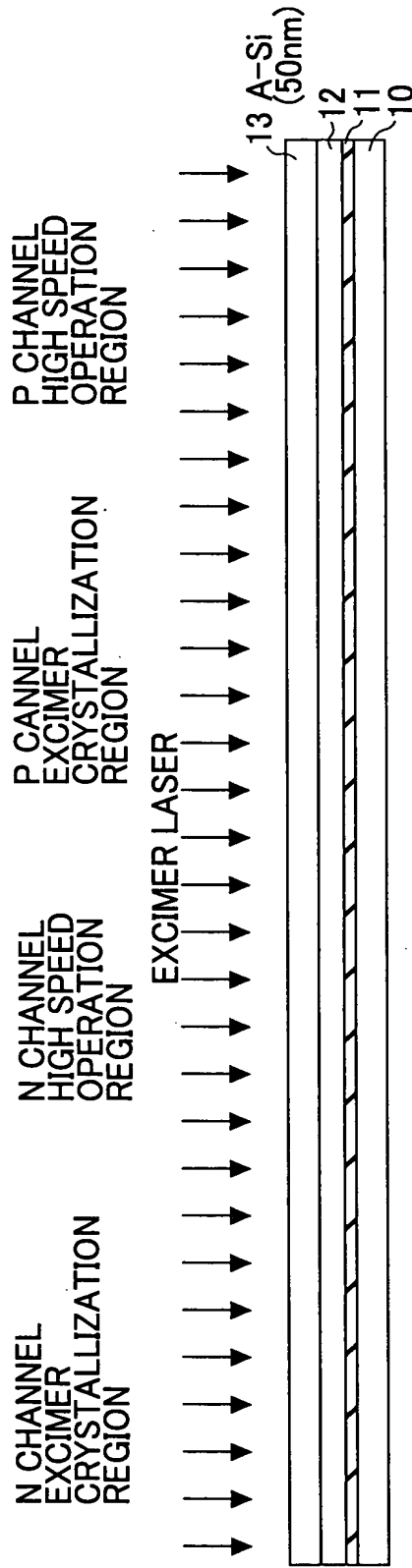


FIG. 16A

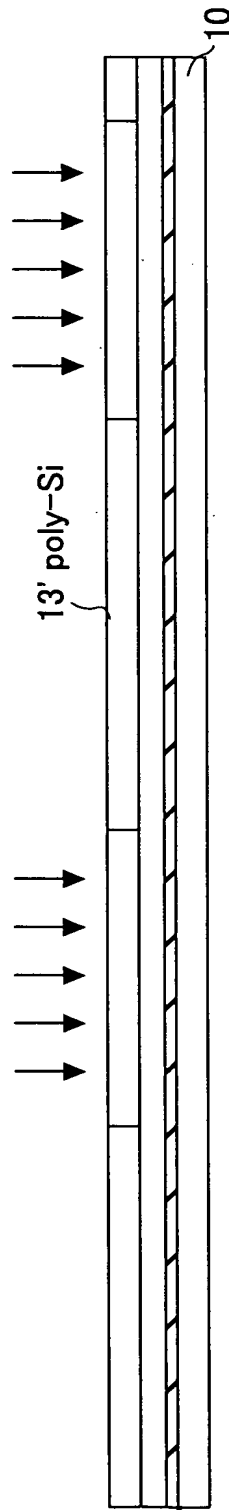


FIG. 16B

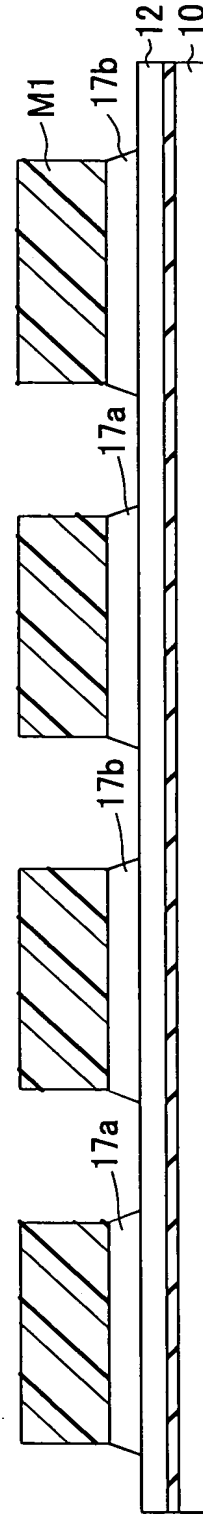


FIG. 16C

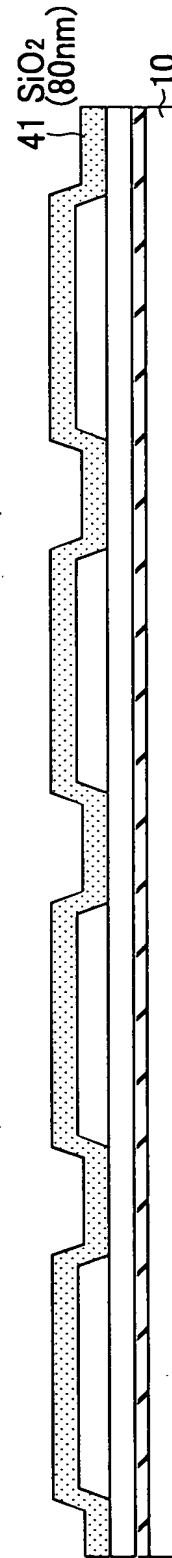


FIG. 16D

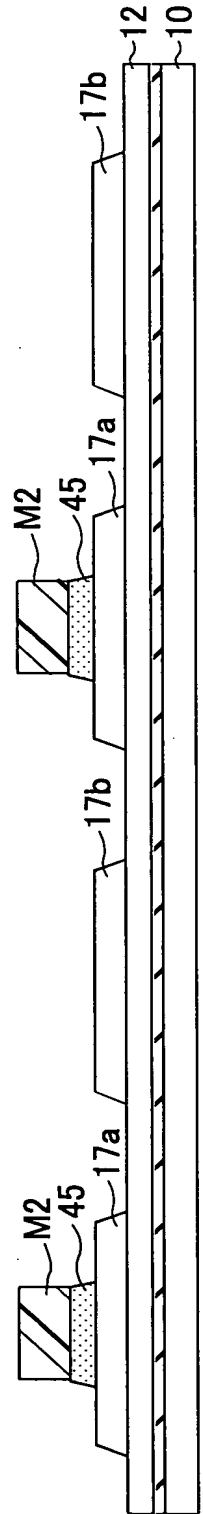
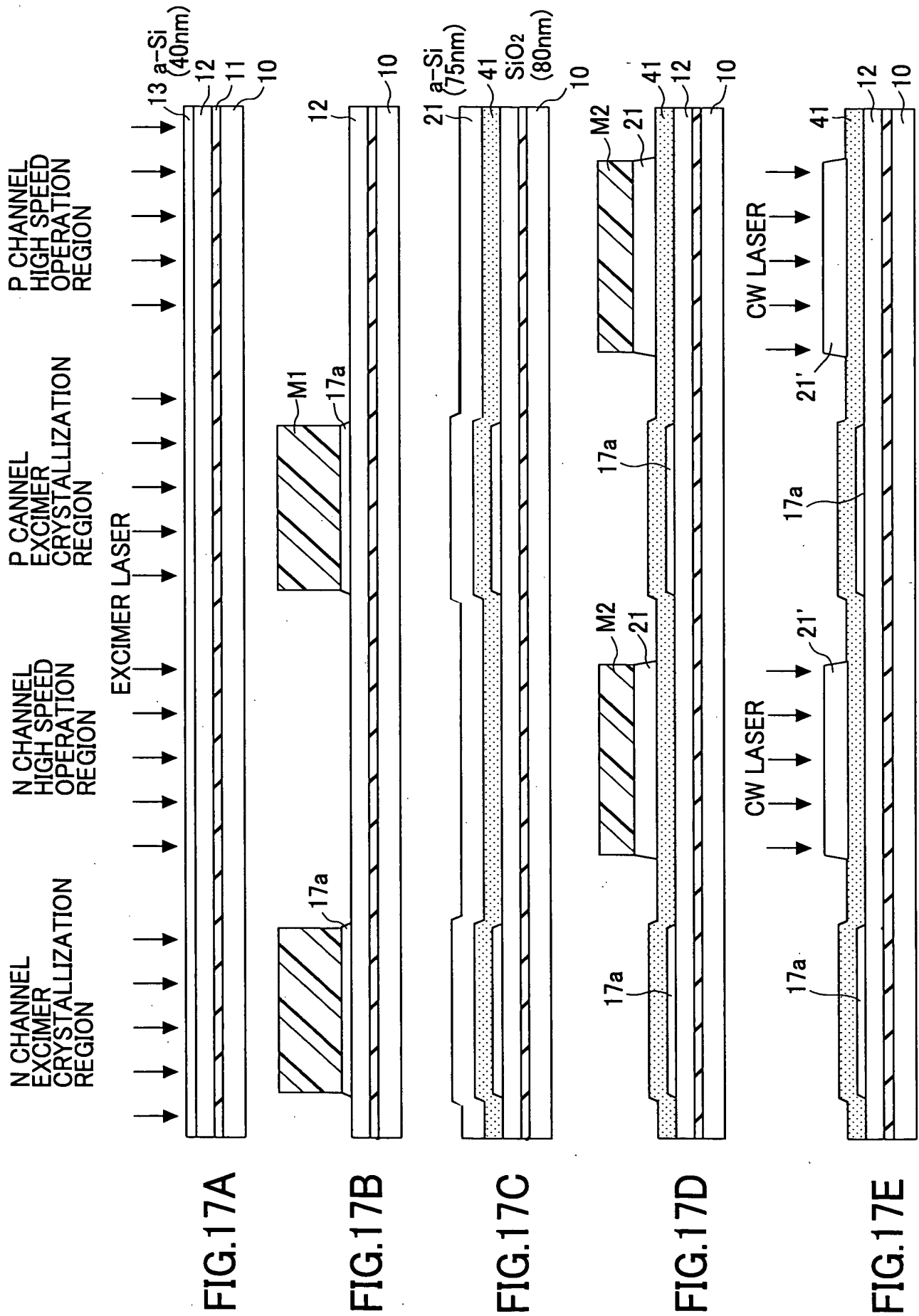


FIG. 16E



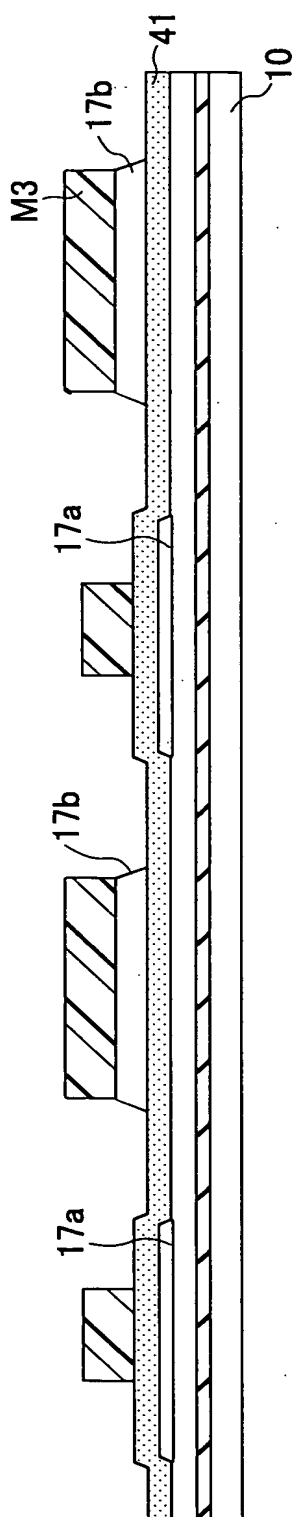


FIG. 17F

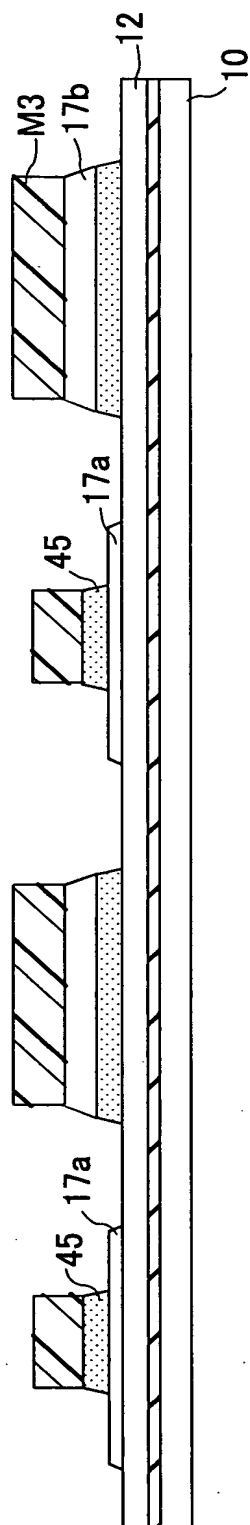


FIG. 17G

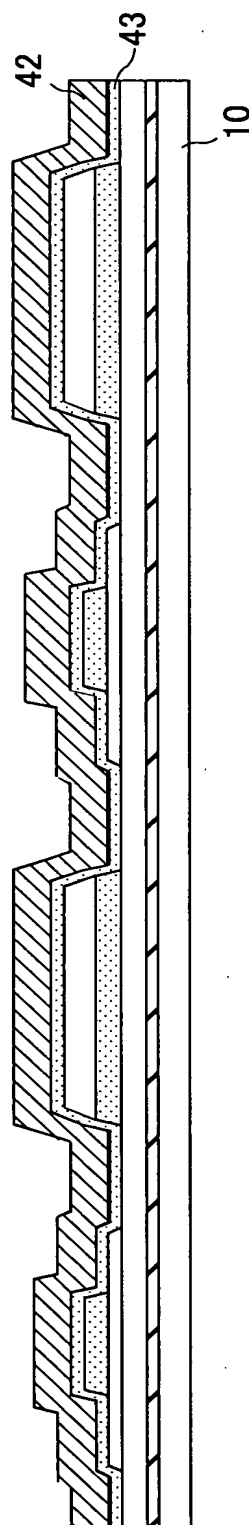


FIG. 17H

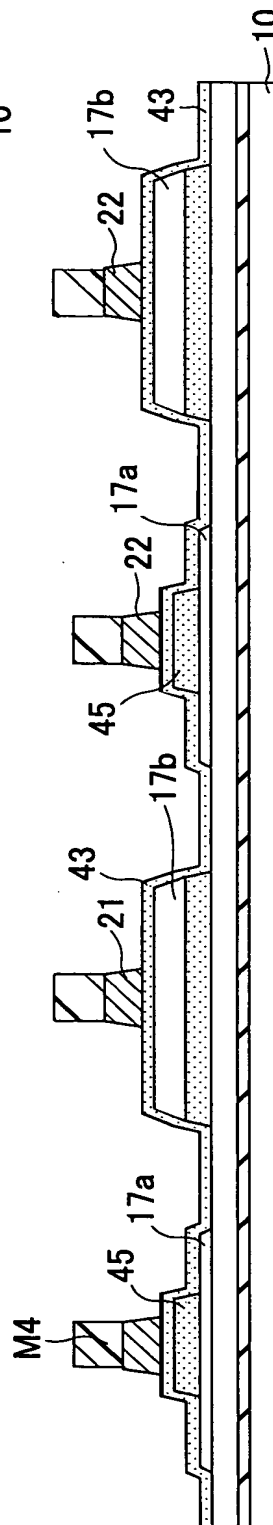


FIG. 17I

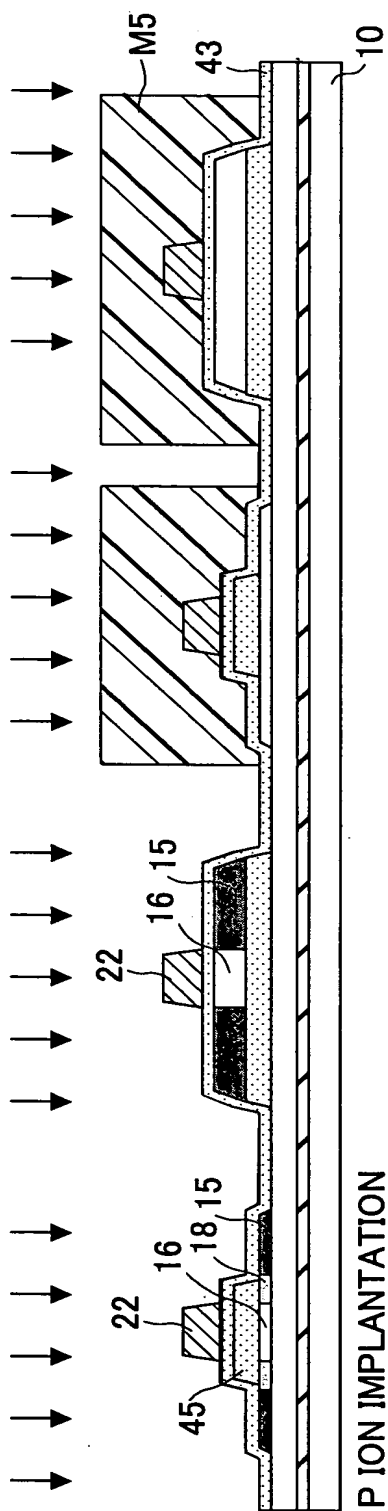


FIG. 17J

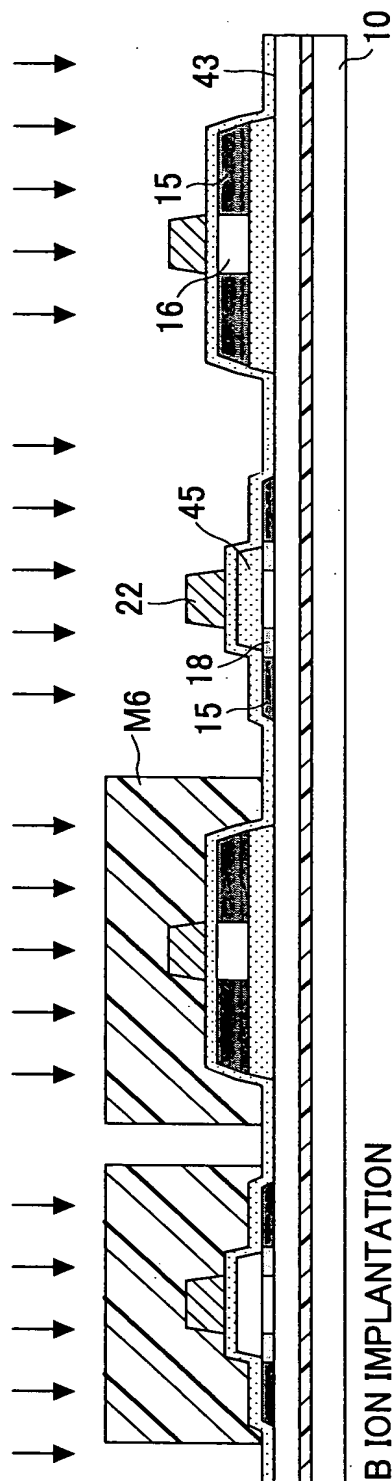


FIG. 17K

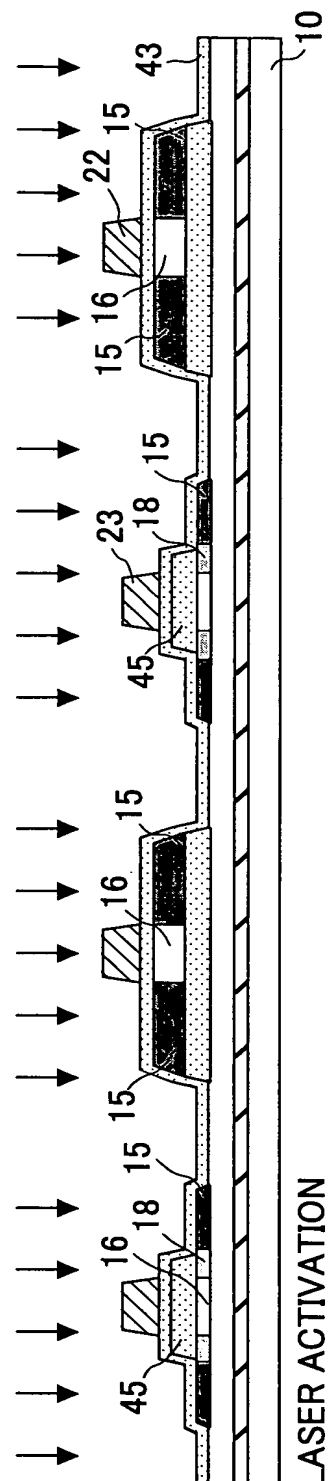


FIG. 17L

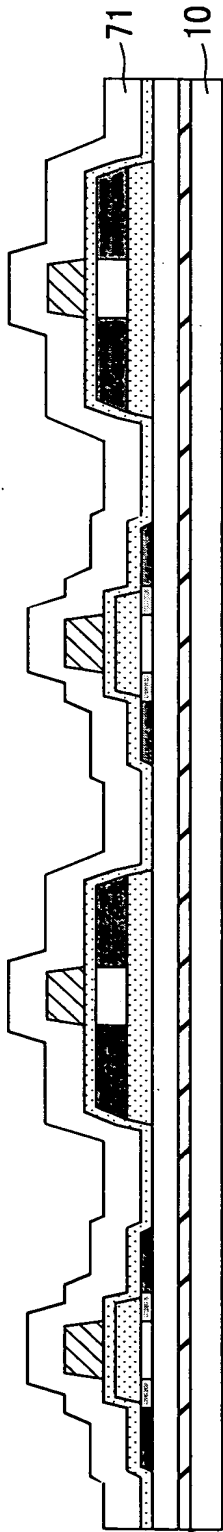


FIG. 17M

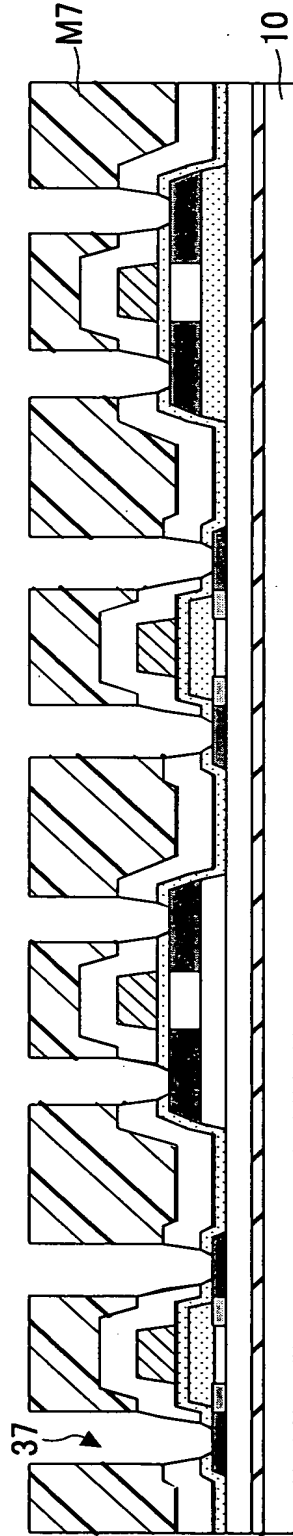


FIG. 17N

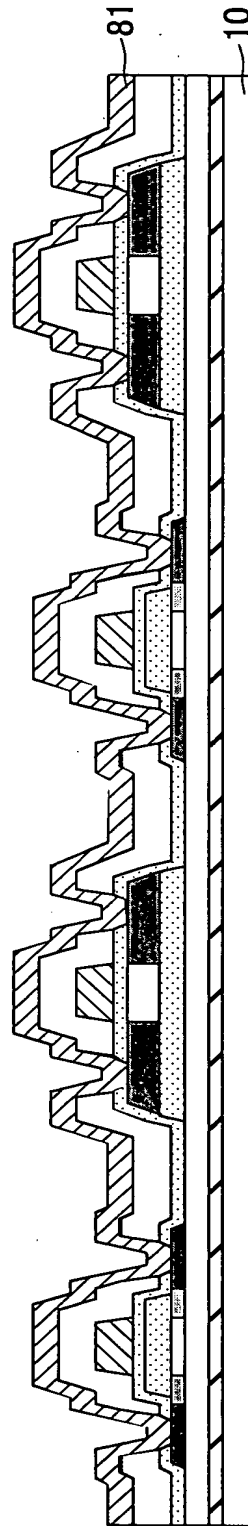


FIG. 17O

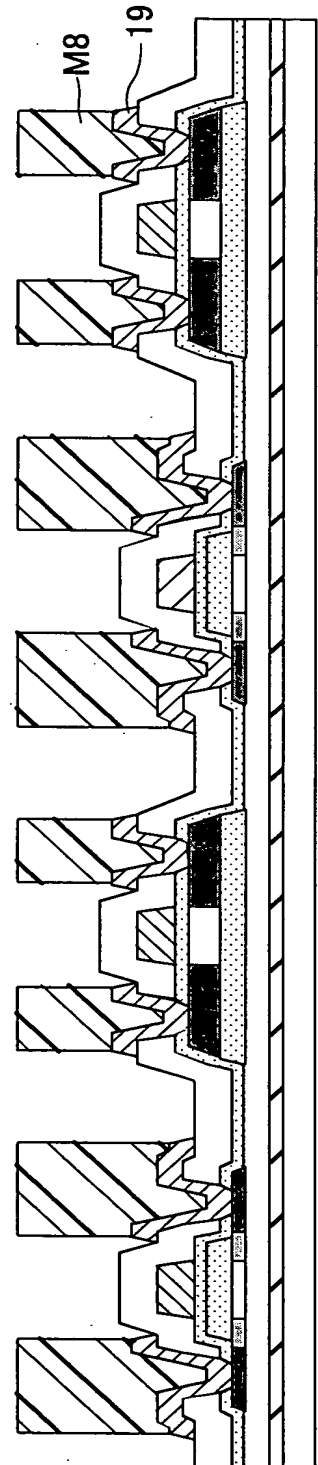


FIG. 17P

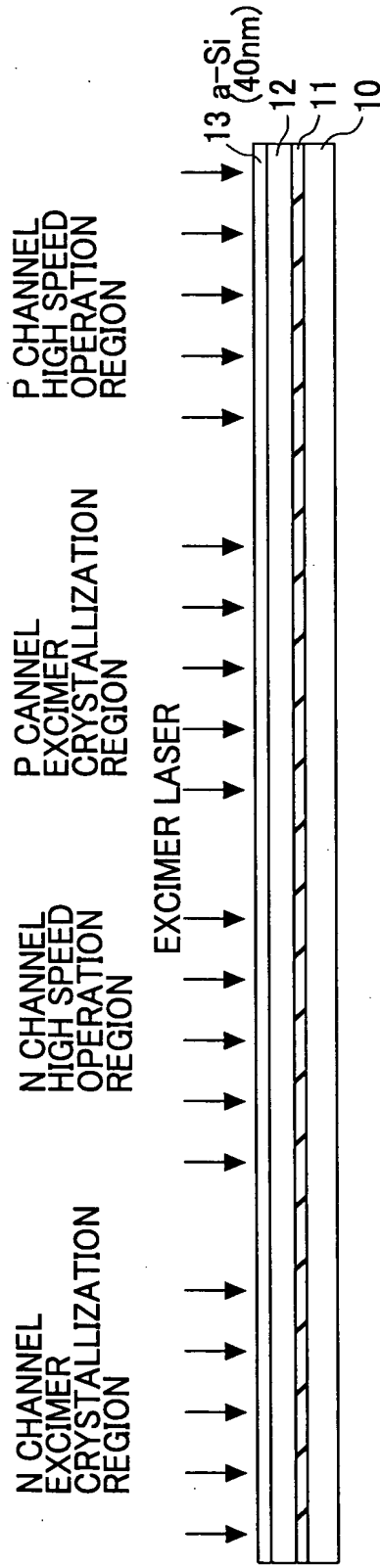


FIG. 18A

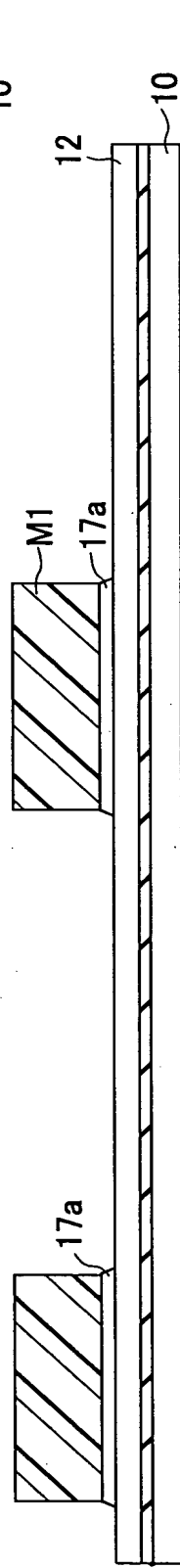


FIG. 18B

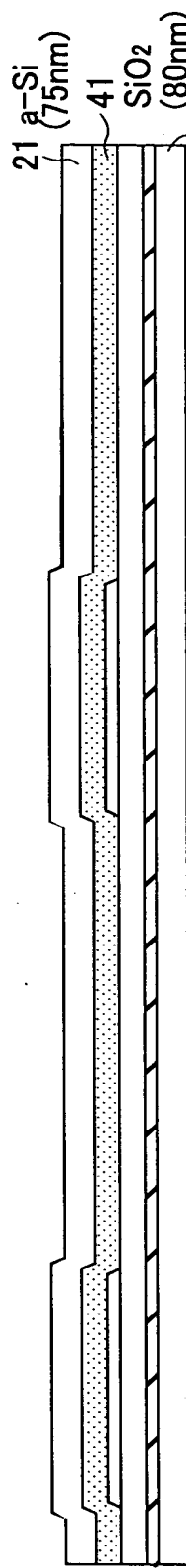


FIG. 18C

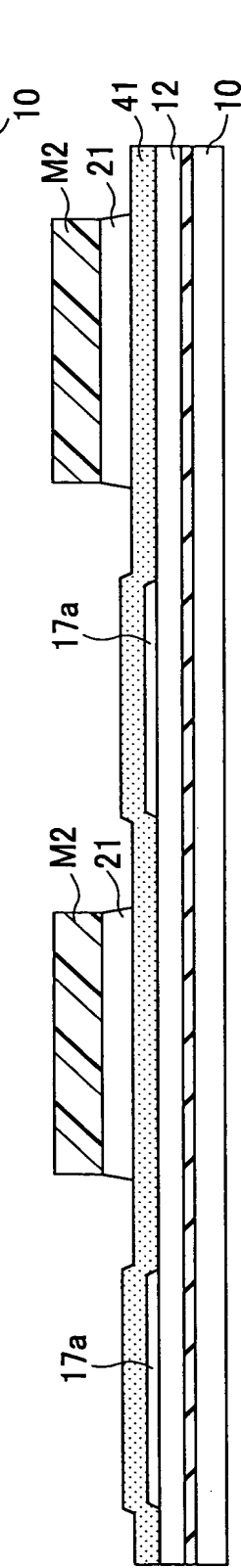


FIG. 18D

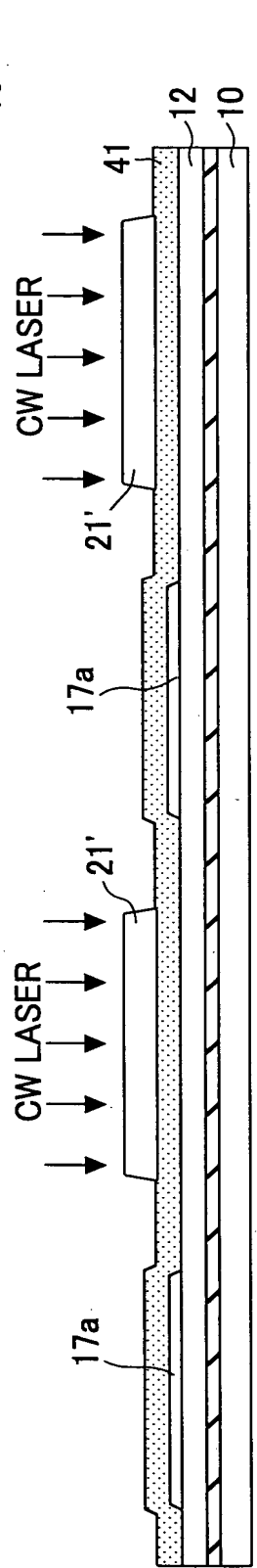


FIG. 18E

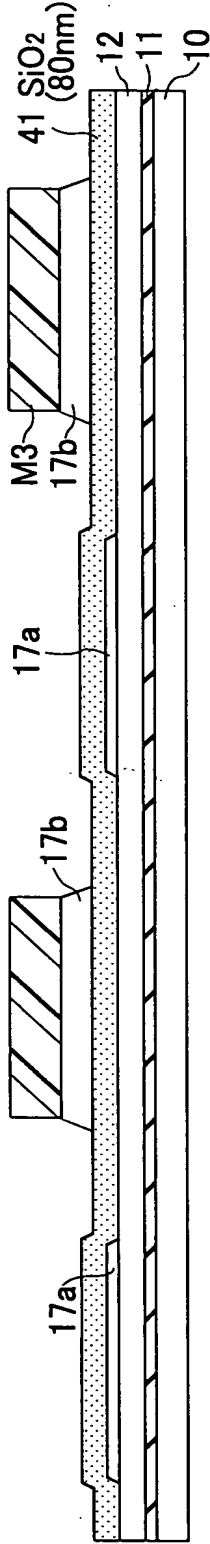


FIG. 18F

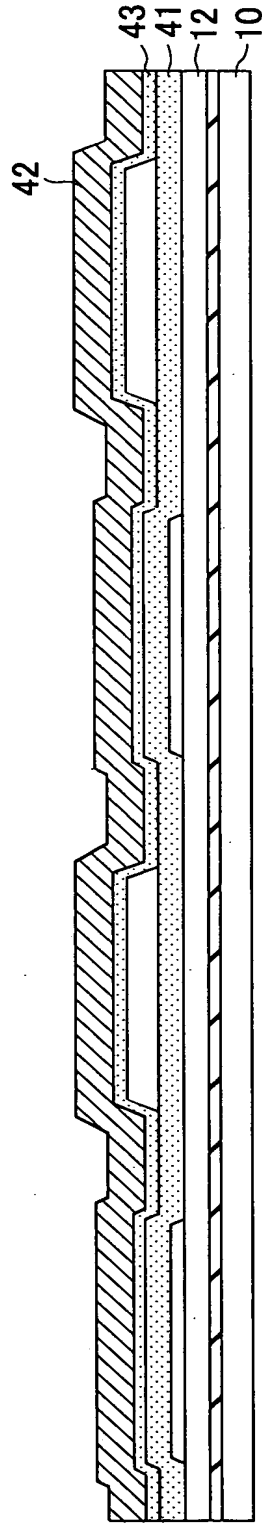


FIG. 18G

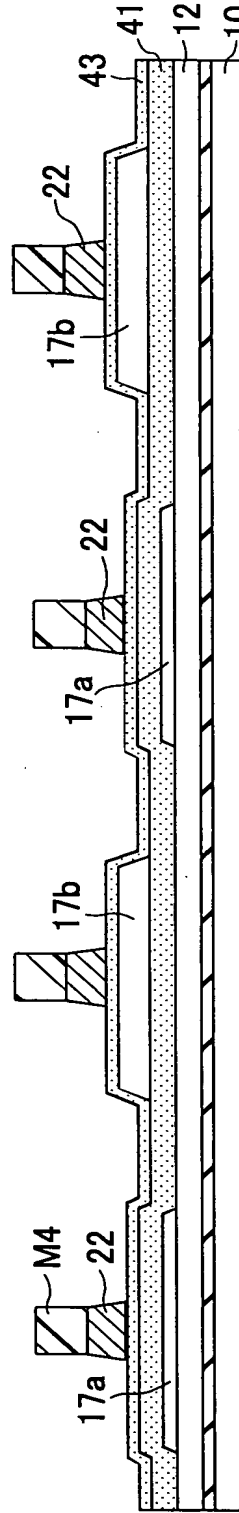


FIG. 18H

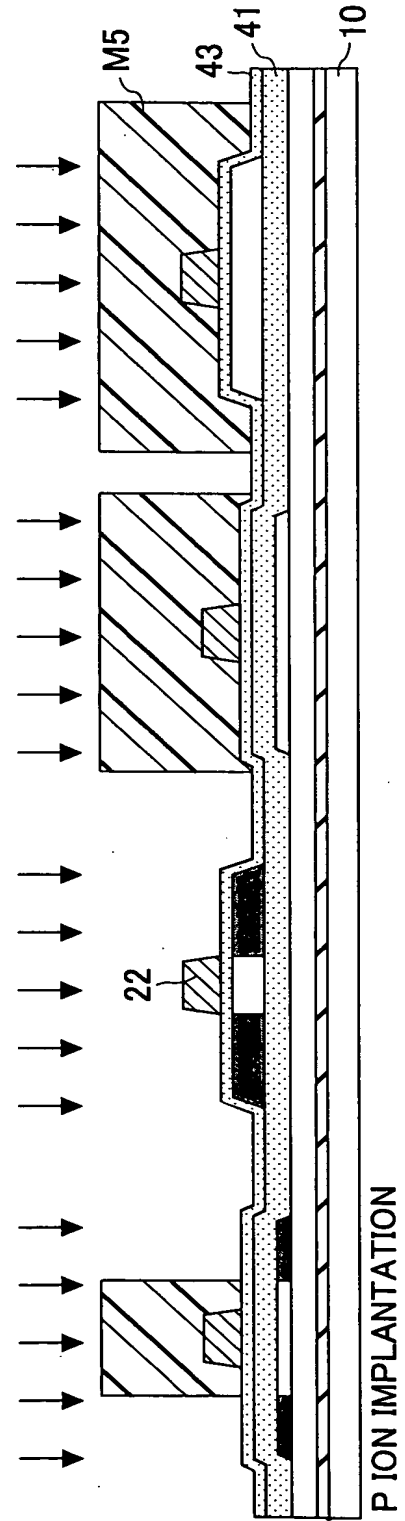


FIG. 18I

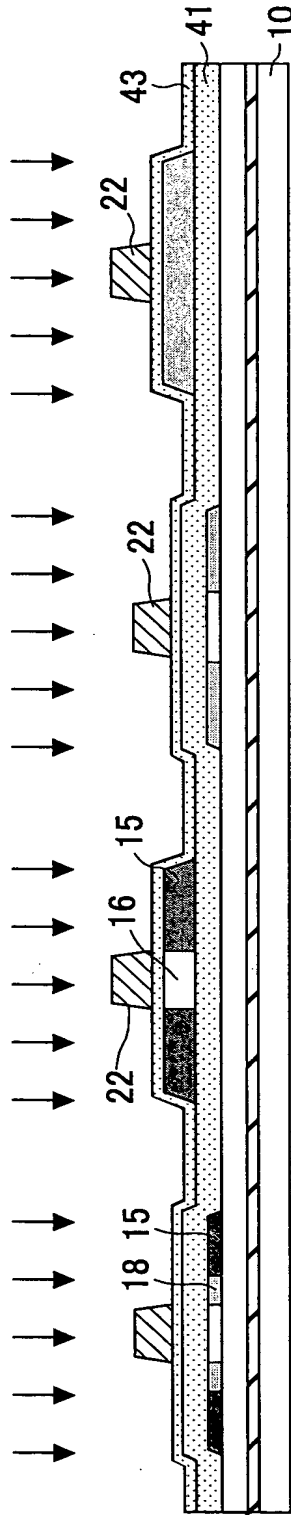


FIG.18J

LOW CONCENTRATION P ION IMPLANTATION

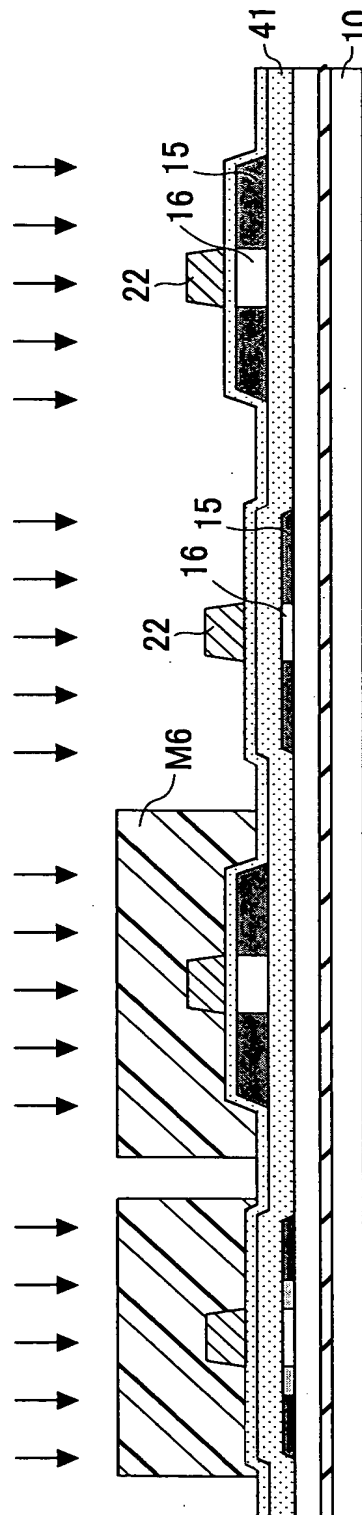


FIG.18K

B ION IMPLANTATION

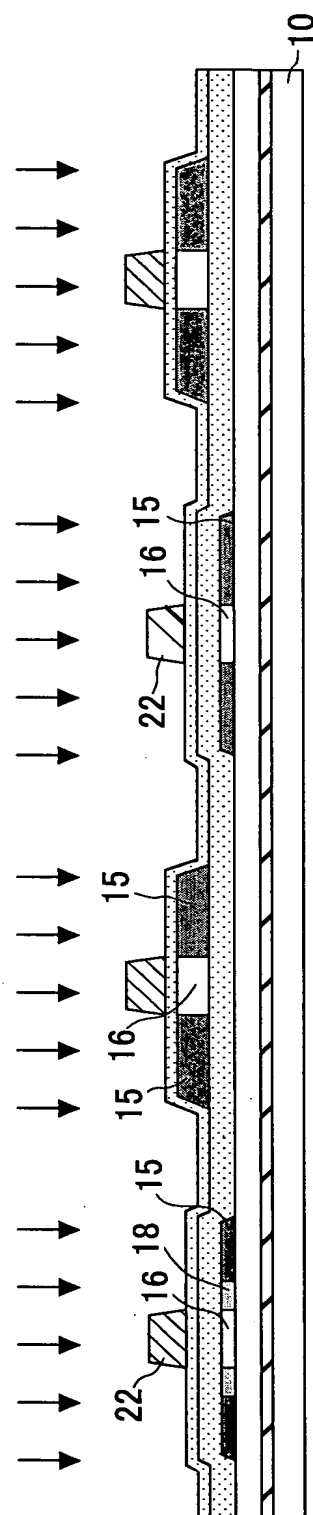


FIG.18L

LASER ACTIVATION

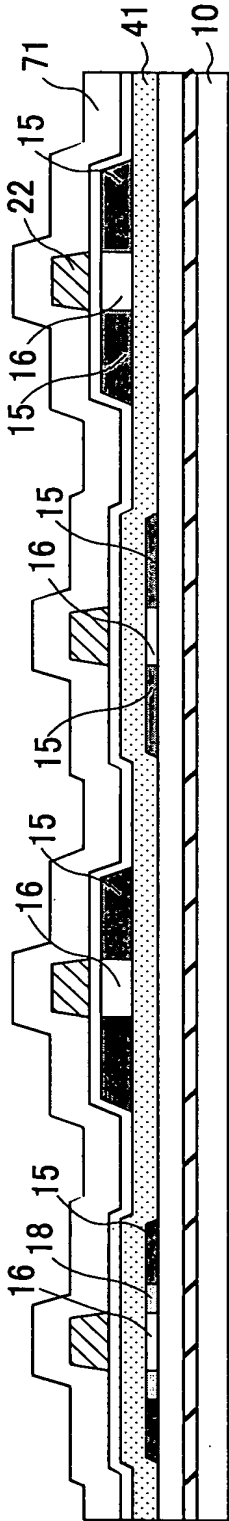


FIG. 18M

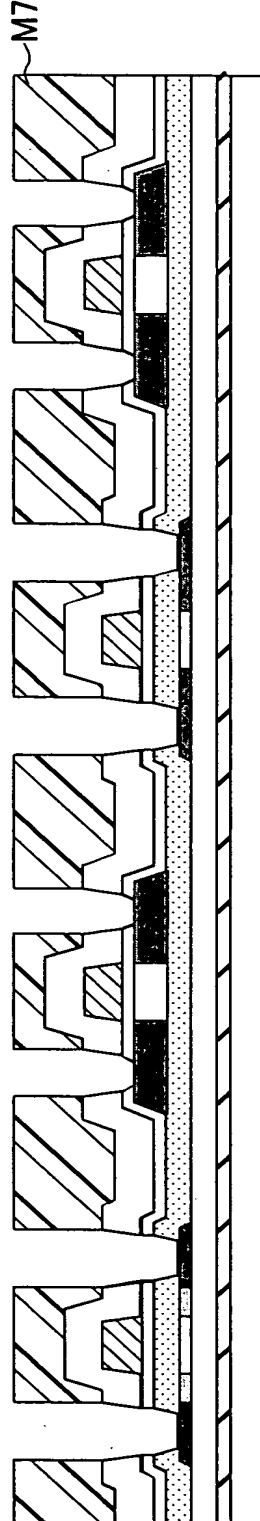


FIG. 18N

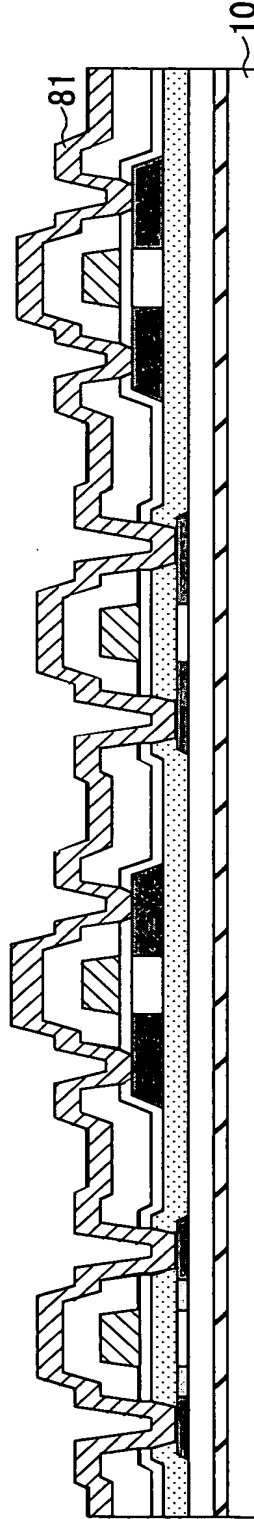


FIG. 18O

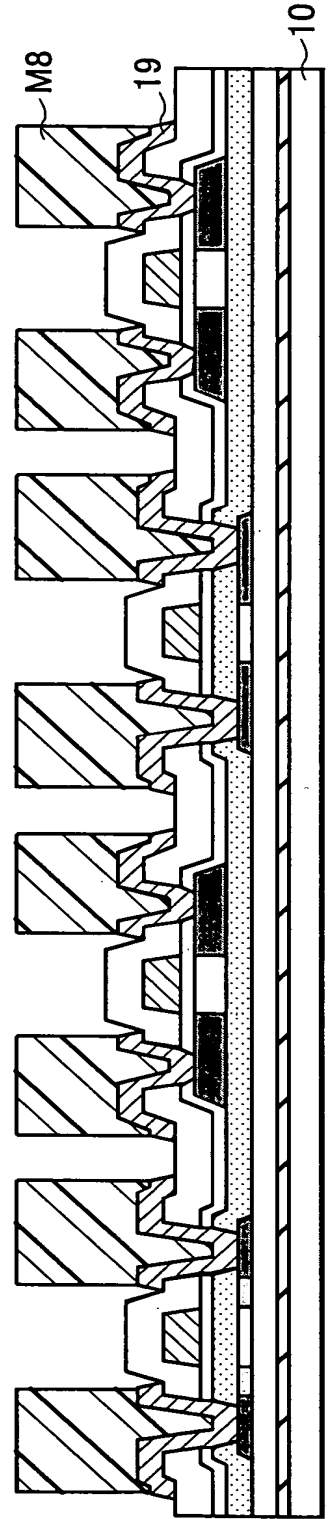
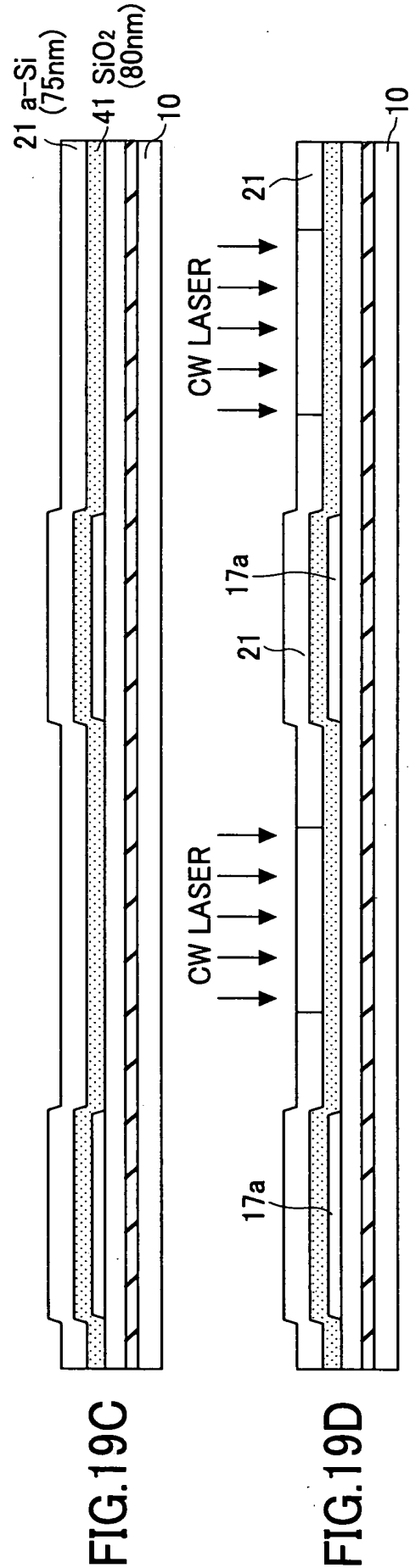
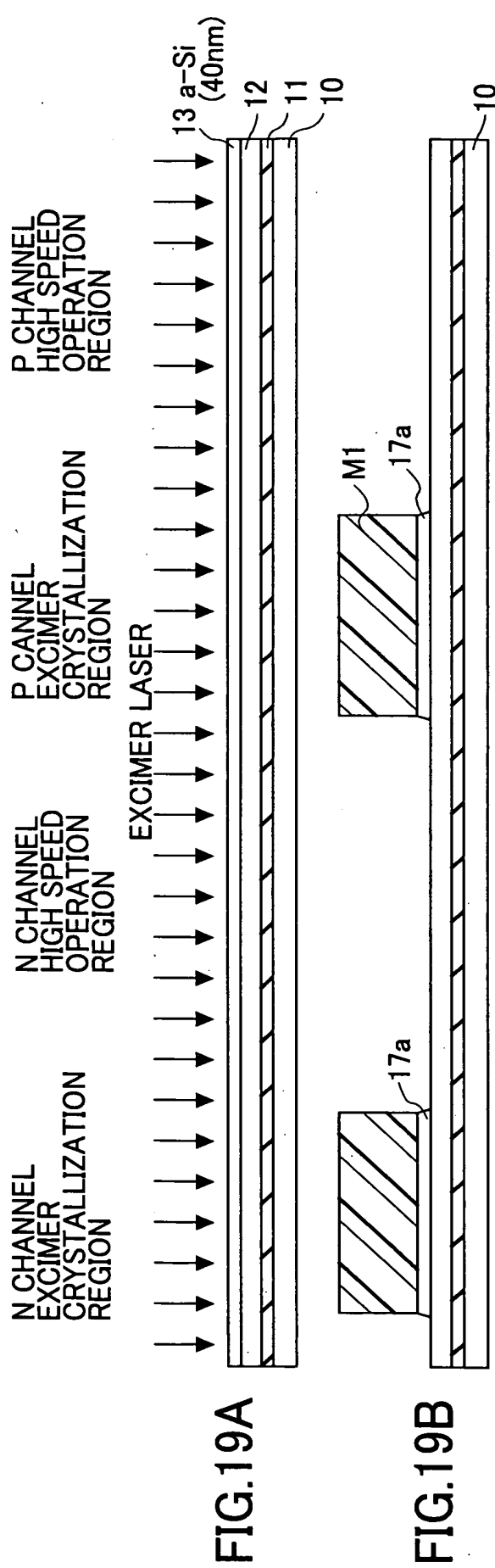


FIG. 18P



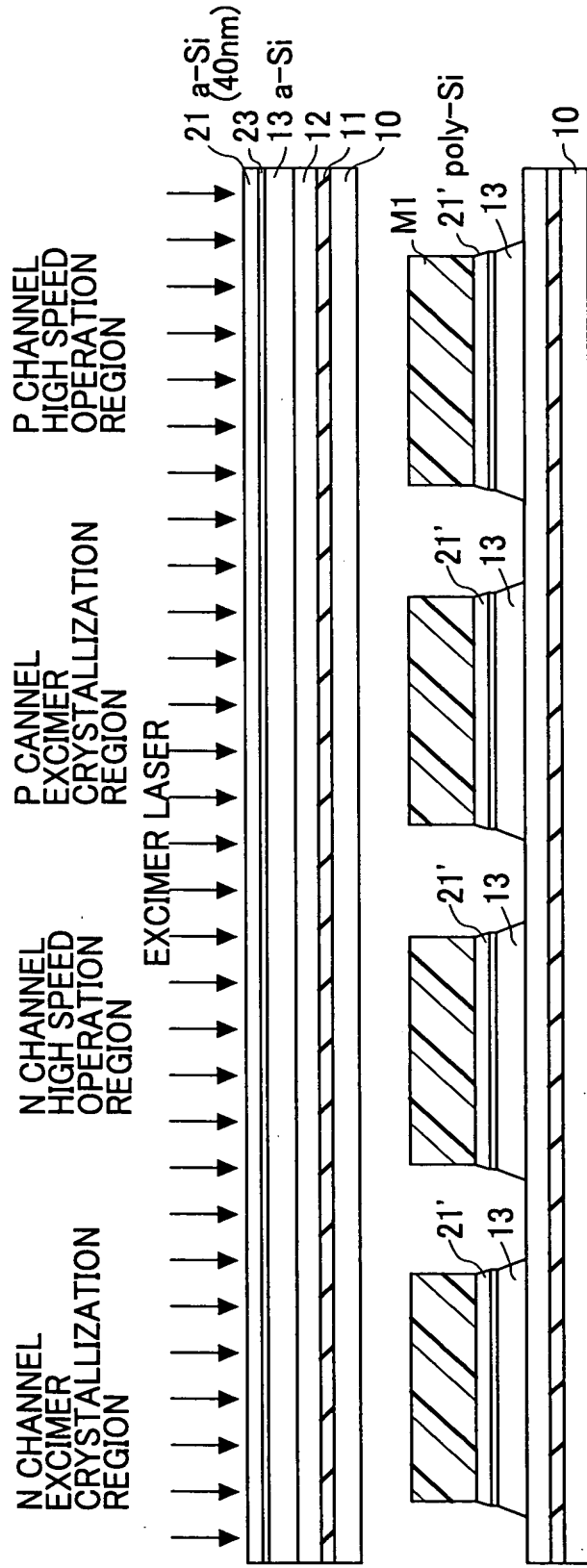


FIG. 20A

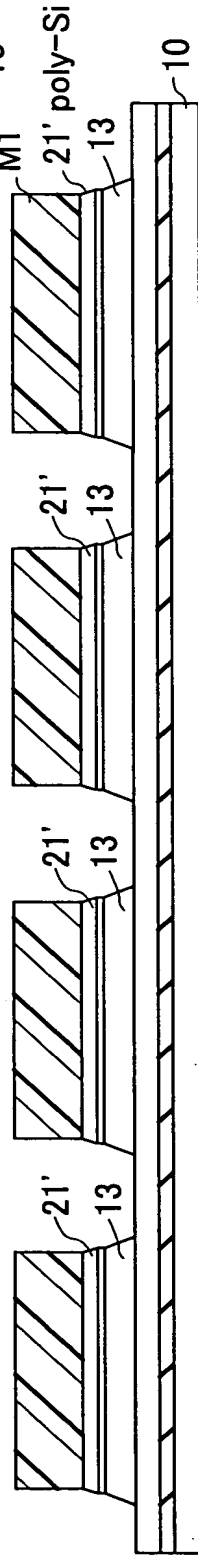


FIG. 20B

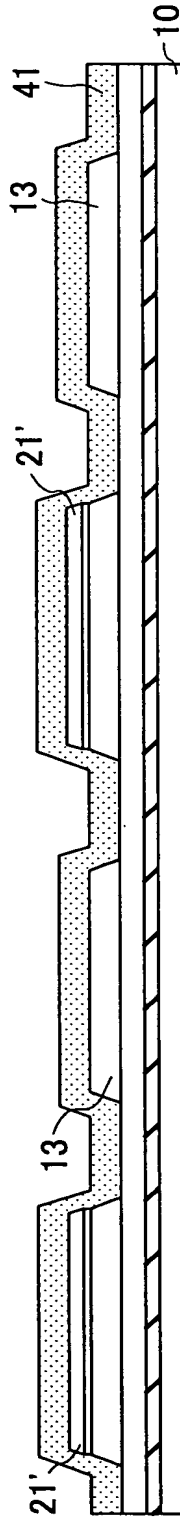


FIG. 20C

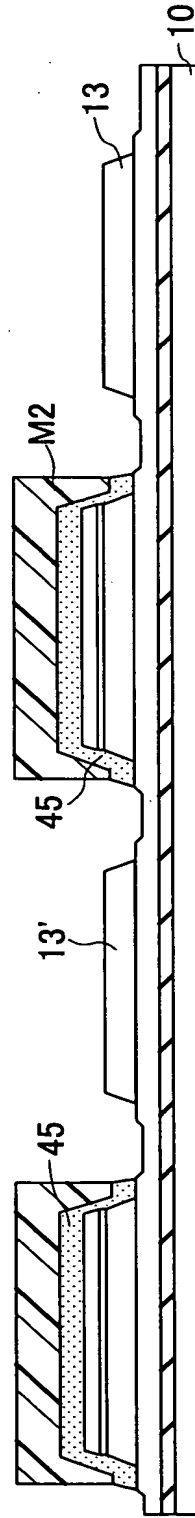


FIG. 20D

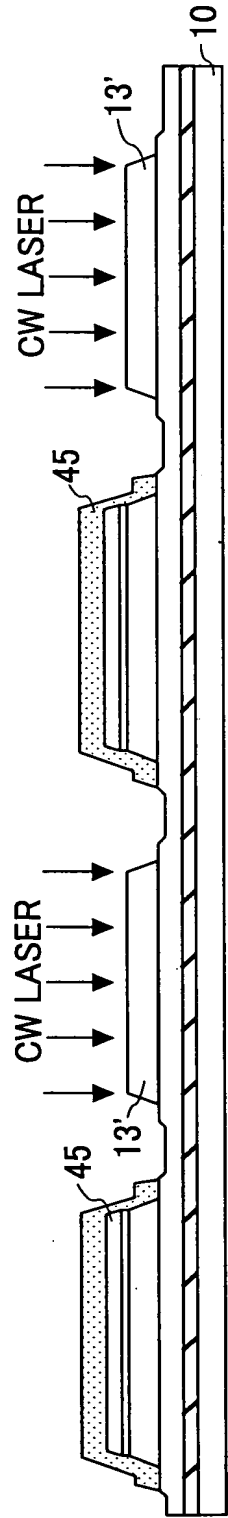


FIG. 20E

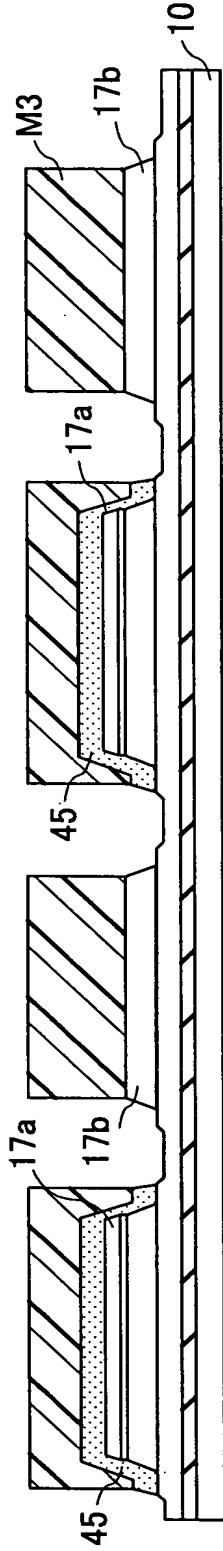


FIG. 20F

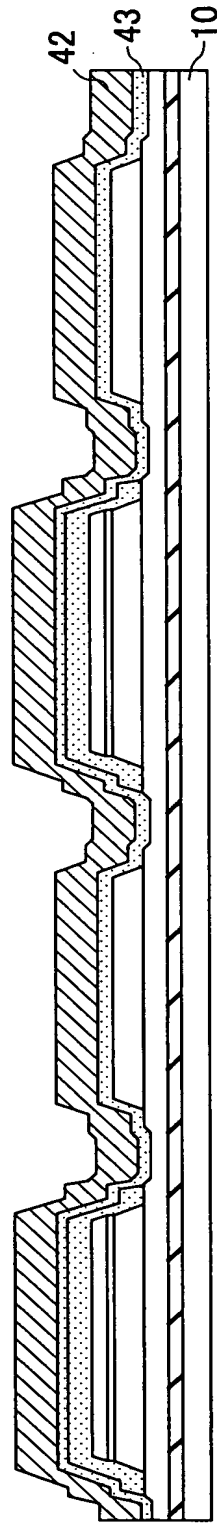


FIG. 20G

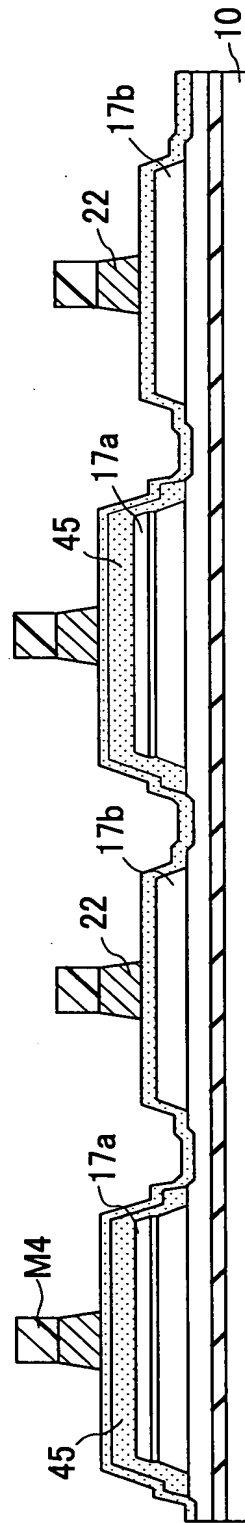


FIG. 20H

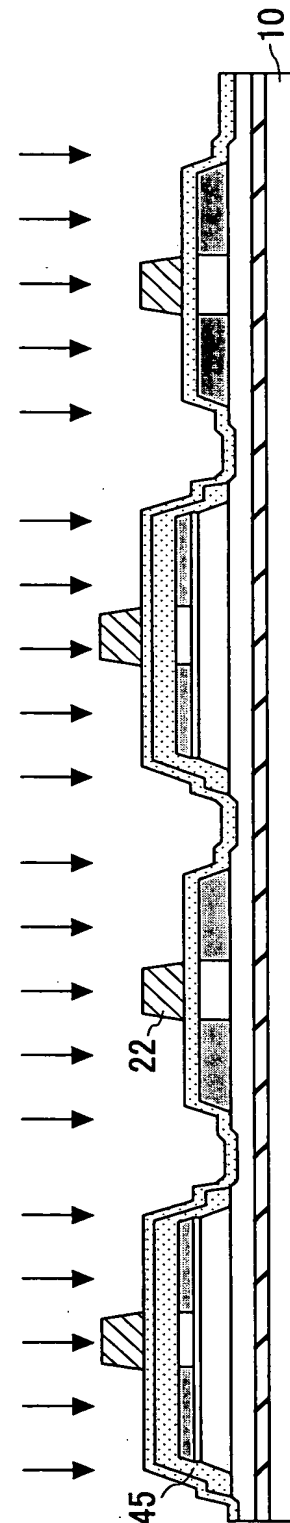


FIG. 20I

LOW CONCENTRATION P ION IMPLANTATION

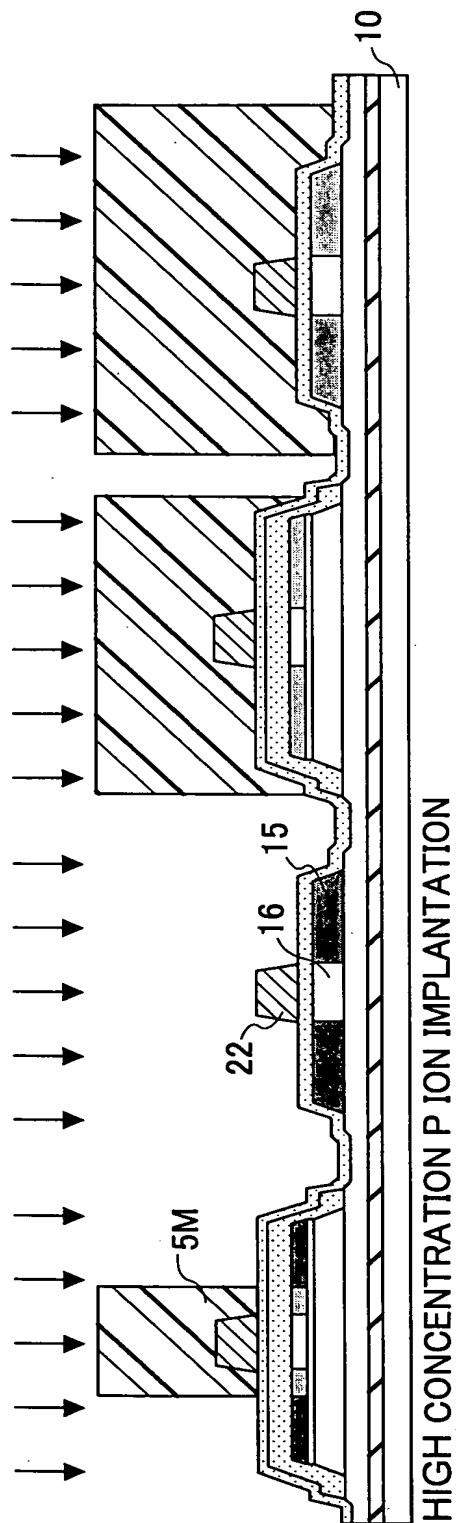


FIG.20J

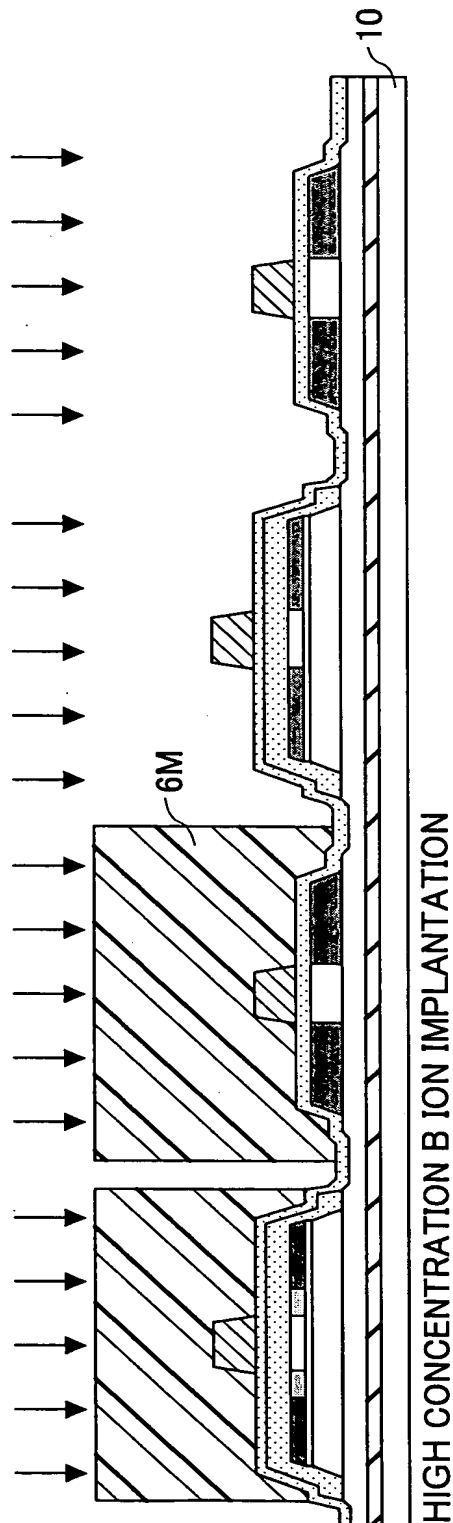


FIG.20K

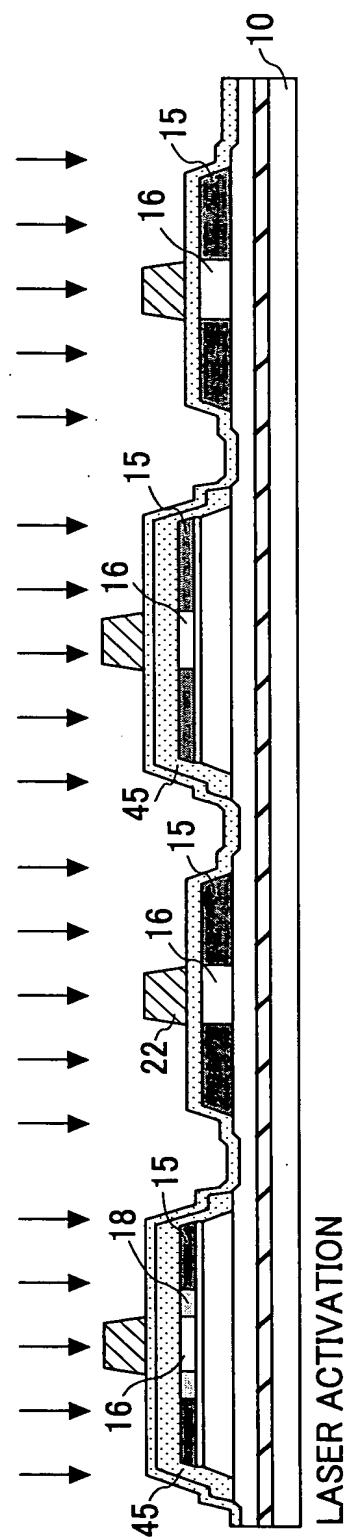


FIG.20L

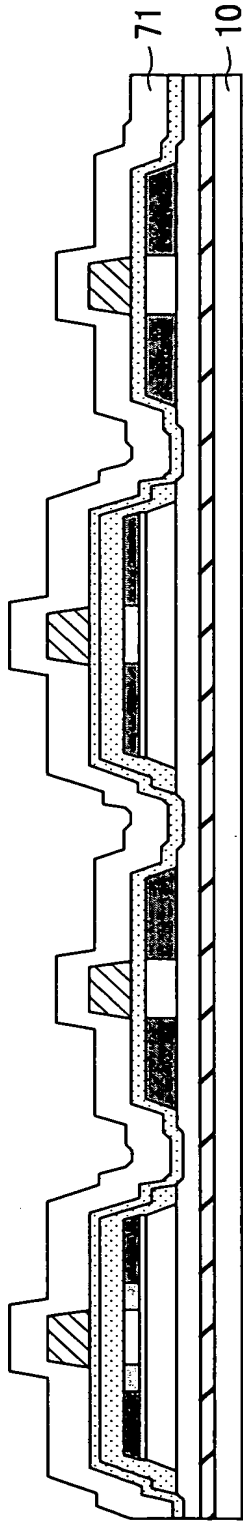


FIG. 20M

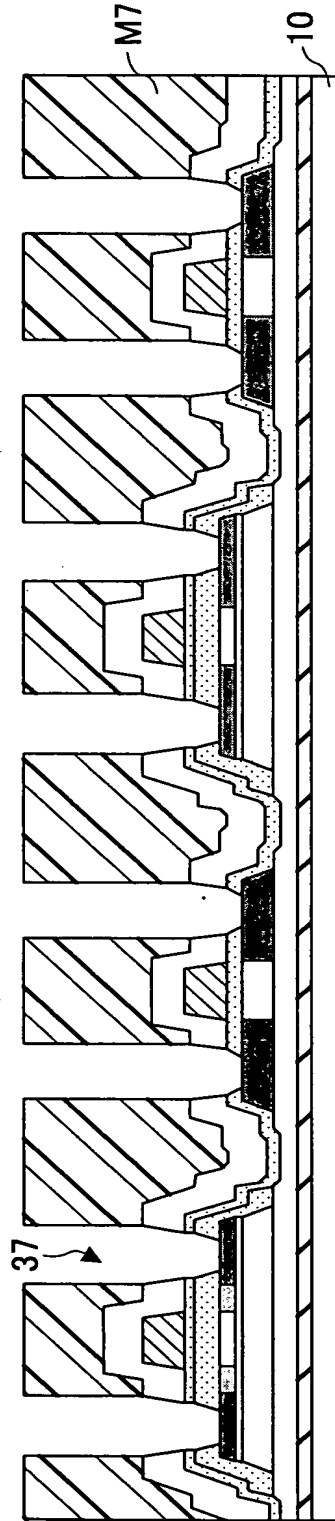


FIG. 20N

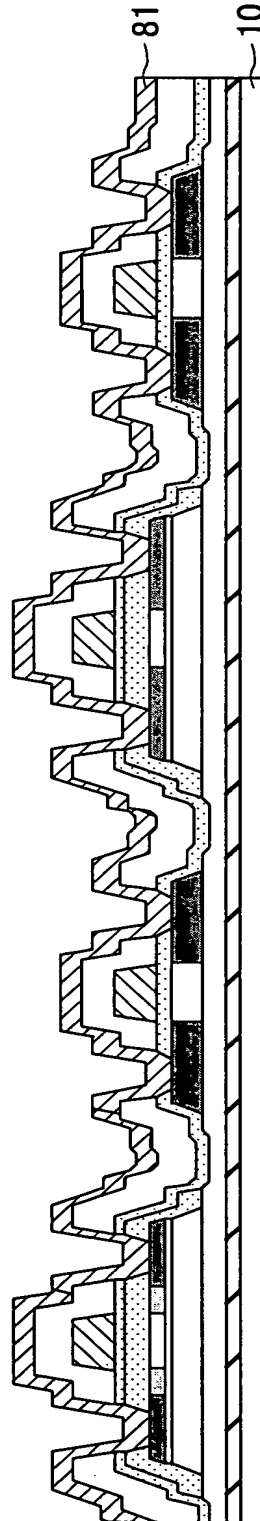


FIG. 20O

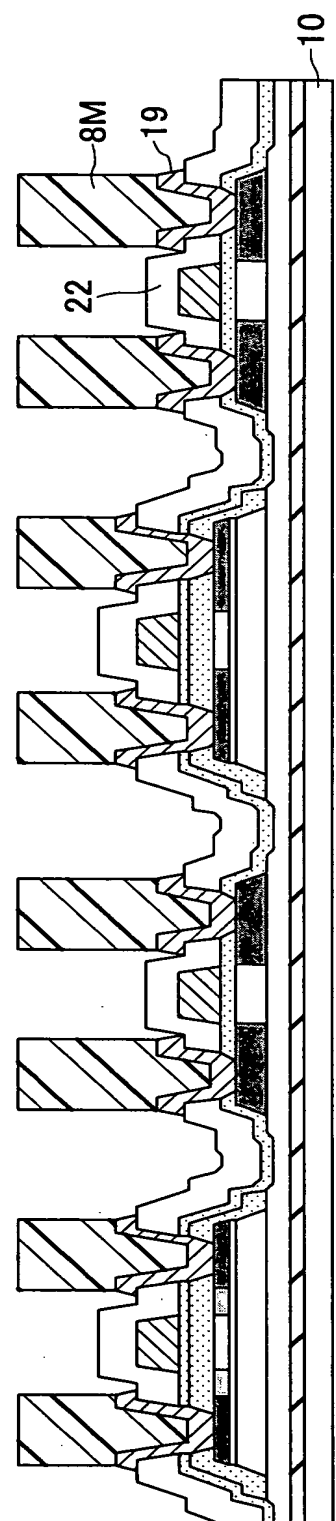


FIG. 20P